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SITE NAME	**SAUGET AREA I**
DOC ID #	**153498**
DOCUMENT VARIATION	**_X_ COLOR OR _X_ RESOLUTION**
PRP	**RMD - SAUGET AREA I**
PHASE	**SAS**
OPERABLE UNITS	
PHASE (AR DOCUMENTS ONLY)	___ Remedial ___ Removal ___ Deletion Docket ____ ____ Original ____ Update #____ Volume __of __

COMMENT(S)

MAPS & PHOTOGRAPHS

FRC 643

L1631210002/St. Clair County 4/25/91
PT's Show Club AKA Site P,
or Sauget/Monsanto Ldfl.
ILD 984809293
Superfund/HRS

153498

CERCLA

Preliminary Assessment Report

Illinois Environmental Protection Agency
P.O. Box 19276,
Springfield, IL 62794-9276

SECTION 1

EXECUTIVE SUMMARY

CERCLA Preliminary Assessment Report

for

PT's Show Club AKA Sauget/Monsanto Landfill, Site P

ILD 984809293

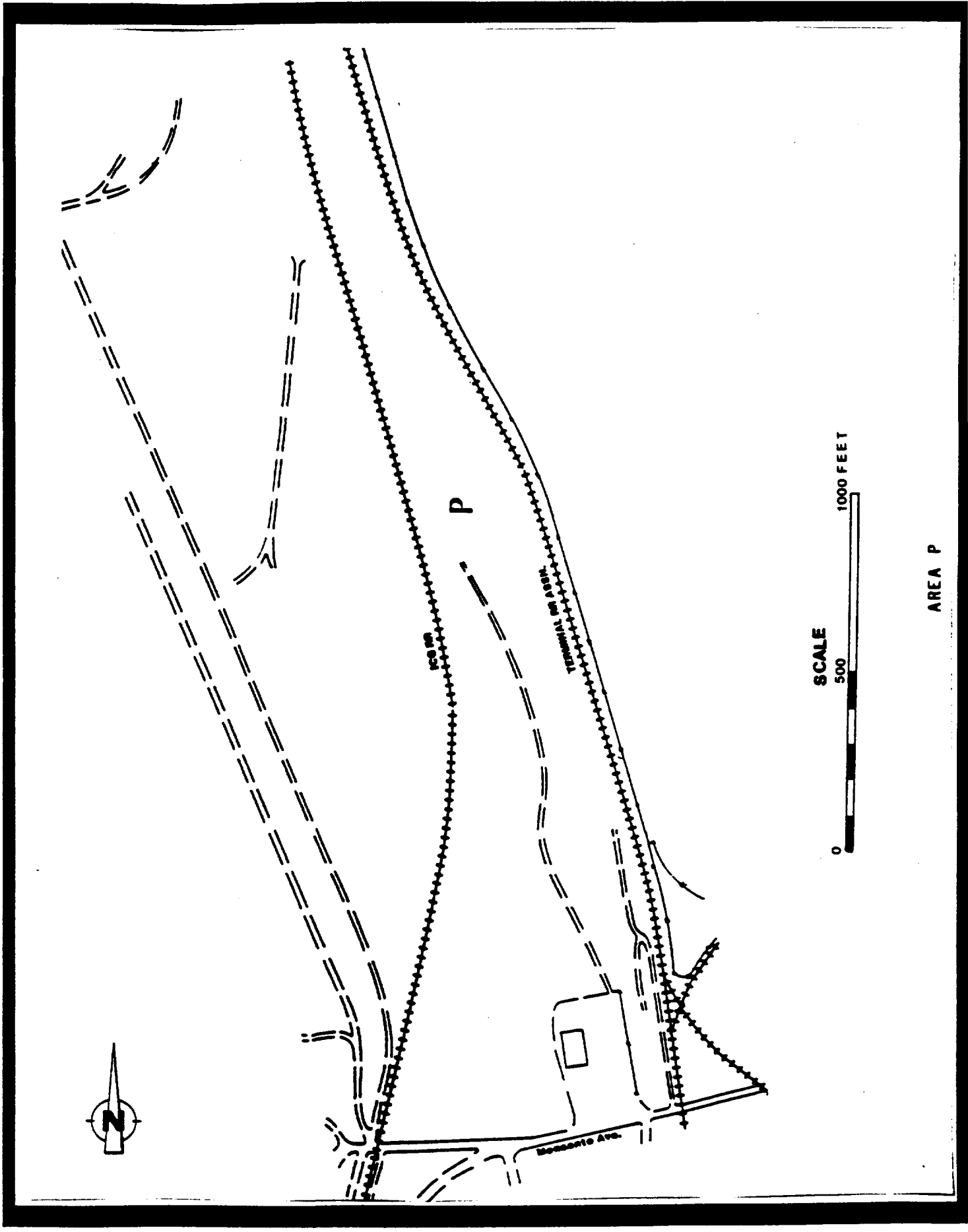
INDEX

Executive Summary

On October 26, 1990 PT's Show Club was placed on the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency (IEPA). The request was based on past disposal practices at the former Sauget/Monsanto Landfill, where PT's Show Club is now located. It is believed that PT's Show Club is one of many sites in Sauget (formerly Monsanto) and northern Cahokia, which has contributed to the degradation of environmental quality in this area.

PT's Show Club, Aka the Sauget/Monsanto Landfill or Site P, is an inactive, IEPA permitted landfill. Located in an industrialized and commercialized area of Sauget, Illinois, the acutely triangulated site covers approximately 20 acres west of Illinois Route 3 and just north of Monsanto Avenue. The features of the former landfill are depicted on the following page. Site P lies within the southern part of Section 23 and the northern part of Section 26 of Township 2 North, Range 10 West of the Third Principal Meridian in St. Clair County.

Site P is bordered: on the west by the Terminal Railroad Association railroad; on the south by Monsanto Avenue; and on the east by the Illinois Central Gulf Railroad. The two



PA: PT's Show Club AKA Sauget/Monsanto Ldfl, Site P ILD984809293

railroads converge to delineate the north boundary, thus creating the triangulated site. The landfill can be seen during its operation in a 1978 aerial photograph contained in Section 3 of this report.

In 1972, Paul Sauget of Sauget and Company entered into a lease agreement with the Union Electric Company to operate a waste disposal facility. In January of 1973, IEPA issued an operating permit to Sauget and Company to accept only non-chemical waste from Monsanto. Sauget and Company subsequently applied for, and was granted, a supplemental permit in 1974 which allowed acceptance of general waste and diatomaceous earth filter cake from Edwin Cooper, Incorporated (now Ethyl Corporation).

The IEPA began conducting routine inspections of the facility in 1974, at which time no violations were evident. In October of 1975, an inspector observed a small amount of yellowish, tar-like liquid in an area adjacent to several crushed fiber drums which were labelled "Monsanto ACL-85, Chlorine Composition." Sauget and Company and Monsanto were subsequently notified of this permit violation, and the matter was not further addressed. In December of 1977, an inspection revealed the disposal of approximately 25 metal containers (12-15 gallon) full of phosphorus pentasulfide (P2S5), a flammable solid. IEPA required Monsanto to excavate and remove all of this material from the site, and

to discontinue disposal of any chemical wastes or packages.

During the same inspection, IEPA became aware of another potential problem. A Southern Railway slag pile was being used for intermediate and final cover material. Analysis of this slag showed it to be unsuitable as cover due to its high permeability and heavy metal content. Cinders were also being used as cover material at Site P, thus posing the same problems as the slag, that is, increased surface water infiltration and the resulting potential for leaching heavy metals along with organic wastes into the groundwater.

IEPA inspections of the landfill in 1978 and 1979 indicated non-permitted disposal of Monsanto ACL filter residues and packages. The composition of this material is not known. According to the site operator at that time, this material would occasionally ignite when it came in contact with the filter cake waste from Edwin Cooper.

An Illinois-American Water Company distribution main was discovered in 1980 during a preparatory landfill excavation on the southern portion of the site. Following discovery of the water line, plans and permits were modified to include no waste disposal within 100 feet of the line. Landfill operations continued until 1984.

IEPA files contain waste quatities and characteristics for

the Edwin Cooper filter cake that was disposed of at Site P, however, Monsanto's wastestream information was not made available to the state agency. Records indicate that approximately 117,000 cubic yards of Edwin Cooper filter cake was accepted. Based on EP toxicity results submitted in 1973, the filter cake was classified as non-hazardous special waste (authorization permit number 740017). Additional analytical data is available for a filter cake composite sample from Edwin Cooper in 1979 which indicates elevated levels of lead at 18.4 parts per million (ppm) cadmium at 1.8 ppm, zinc at 7220 ppm and a pH of 11.22. No groundwater monitoring program has been established for Site P, nor have wastes at the site been fully characterized.

Aerial photographs that predate the 1970's, show no indications of previous waste disposal activities at the site. Prior to 1979, portions of Site P were owned by the Union Electric Company and the Illinois Central Gulf Railroad. Currently, Site P is owned as Trust Property for Paul Sauget (Bank of Belleville, Illinois) and Union Electric Company in St. Louis.

In 1985, IEPA contracted Ecology and Environment, Incorporated (E&E) to investigate 12 suspected uncontrolled hazardous waste sites and six segments of Dead Creek in Sauget and Cahokia. Site P was among the 12 sites with which soil borings, and subsurface soil samples were collected.

The results of E&E's investigation were used in preparation of this report.

During the E&E investigation of Site P, five 30-40 feet soil borings were drilled to investigate subsurface conditions at the site. The borings indicate that fill material consisting of silty clay, cinders, slag, and refuse were disposed directly on the land surface. The thickness of the fill ranges from 13 feet at boring P1 to 28 feet at boring P2. In general, the surface of the site is covered with 1-2 feet of cinders and slag. Fill material was observed at all five boring locations. With the exception of P1, fine-to medium grained sand was found immediately below the fill in each of the borings. This sand was present to boring termination at 30-40 feet. In P1, 5 feet of brown silty clay was found below the fill prior to the fine- to medium-grained sand. The absence of clay and the relatively greater thickness of the fill at other boring locations suggests that clay materials may have been scraped from the surface or reworked to incorporated debris when disposal was initiated.

Significant waste material layers were generally not observed, although odors were noted in some of split-spoon samples containing fill. The boring logs are contained as Reference #1 of this report.

Analysis of four samples of subsurface soils collected from

two borings at Site P revealed eight volatile compounds present in sample P1-53 and two volatile compounds in sample P2-54. No volatiles were detected in samples P5-55 and P5-56. The highest concentrations of any volatile contaminants detected were 0.41 milligrams per kilogram of soil (mg/kg) of toluene and 0.45 mg/kg of xylenes in sample P1-53.

Three semi-volatile compounds were found to be present in P1-53. The analysis showed 3.9J mg/kg of phenol, 8.9J mg/kg of of 1,4-dichlorobenzene and 3.6J mg/kg of 1,2-dichlorobenzene in the sample. No semi-volatiles were detected in samples: P2-54, P5-55 and P5-56. The following table summarizes the subsurface sample results for Site P.

Summary of Subsurface Soil Sample Results for Site P

Chemical Name	Number of Detections	Highest Conc.	Sample with Highest Conc.
Volatiles			
toluene	1	0.41	P1-53
chloroform	1	0.01	P1-53
benzene	1	0.05	P1-53
ethylbenzene	1	0.12	P1-53
xylenes	1	0.45	P1-53
4-methyl-pentanon	2	0.05	P1-53
chlorbenzene	1	0.14	P1-53
hexanone	2	0.05	P1-53
Semi-volatiles			
1,4-dichlorobenzene	1	8.9J	P1-53
1.2-dichlorobenzene	1	3.6J	P1-53
phenol	1	3.9J	P1-53

Conc.-Concentration, J-estimated value, values in mg/kg (ppm)

Although no pesticides or PCB's were detected in the Site P subsurface soil samples, inorganic contaminants were found. An elevated concentration of lead was detected in sample P5-55 and elevated concentrations of cyanide were detected in samples P5-55 and P4-54. The lead concentration in P5-55 was 5 to 10 times background. The analytical data is provided in Reference number 2.

IEPA personnel visited Site P on June 26, and July 31, 1991. During the former visit, PT's well was sampled as part of the CERCLA Screening Site Inspection field activities for Sauget Area #2 Sites. The on-site well supplies PT's Show Club patrons with ice and drinking water. While sampling the well, Paul Takacs of IEPA, screened portions of the site with a HNu photo-ionization detector. The instrument readings at ground level indicated the presents of organic volatiles well above background (up to 150 units above background) at the east central portion of the site. Other areas of the site were not screened.

Surface topography at Site P is characterized by steep sloping landfill sides along its east and south-central portions. Deep erosional channels have cut into these slopes. The majority of the site is covered with cinders. A depression is found along the east perimeter (where elevated HNu readings were obtained), adjacent the Terminal Railroad Association railroad. Surface drainage is to the south-

central portion of the site, which was not landfilled due to the presence of a potable water line in this area. Surface drainage will not leave the site due to the presence of railroad embankments along the perimeter and the depression in the central portion of the site. Access to the site is not restricted.

Site P is located in an area known as the American Bottoms. ISGS well logs indicate that the upper stratigraphy in this area consists of 70-120 feet of unconsolidated alluvium and glacial outwash overlying Mississippian aged limestone and sandstone formations (Ste. Genevieve and St. Louis Limestones). The valley fill deposits are composed of two formations, the uppermost being the Cahokia Alluvium followed by the Mackinaw Member of the Henry Formation.

The Cahokia Alluvium is composed predominantly of silt, clay and fine sand deposits, generally indicative of a aggrading environment. In the vicinity of Dead Creek, these deposits vary in thickness, with a range of 15 to 30 feet. This formation was laid down via flood events, eolian activity, bank slumping, erosion and/or slugs of material deposited directly by tributary steams. The Mississippi River has frequently reworked this formation in such a way that coarser material is intermingled with finer-grained deposits.

Underlying the Cahokia Alluvium is the Mackinaw Member of the

Henry Formation. This formation is composed of sand and gravel from glacial outwash. At the Dead Creek area, this material rest directly on the bedrock surface and varies between 70 and 100 feet in thickness. Reference #3 contains area well logs which describe the area geology.

Local hydrogeologic information has been obtained through groundwater monitoring in the Sauget area. In the vicinity of Site P, shallow sand and gravel deposits close to the ground surface, yield significant quantities of water for nearby homes and business. Horizontal groundwater movement in the shallow deposits generally follow the land surface topography, with lateral movement toward local discharge zones (wells and small streams), and some movement into the deeper unconsolidated aquifers. Groundwater is encountered between 10 and 28 feet below the ground surface in the Dead Creek area. Under Site P, the aquifer of concern (AOC) is encountered at around 40 feet due to the build up of the landfill. Groundwater in the deeper unconsolidated valley fill deposits generally follows the bedrock surface. Accordingly, groundwater generally flows downstream through the sand and gravel aquifers in much the same direction as the original stream flow, but at a much slower rate.

Most area residents are supplied with drinking water by the Illinois-American Water Company (IAWC) which operates an intake on the Mississippi River upstream of Sauget. IAWC

sells the water to the various water departments and districts within the Sauget/Cahokia area. However, some area residents do obtain drinking water from shallow wells. Illinois Department of Public Health (IDPH) files and Illinois State Water Survey (ISWS) well logs indicate at least 50 area residents have wells which are used for drinking or irrigation. These wells are located in Cahokia (23), East St. Louis (5), East Carondelet (16) and Dupo (6). These do not include the wells at the homes on Judith Lane in Cahokia or an unknown number of residents in the Schmids Lake area (approximately 4.1 miles southwest) that are not covered by any public water distribution. The alluvial well at PT's Show Club, which draws water from the AOC, is monitored by the IDPH as a non-community well (serving over 25 people). A 1983 report by the Southwestern Illinois Metropolitan and Regional Planning Commission (SIMRPC) listed 69 residences in Centreville Township (includes Sauget, Cahokia, Alorton and Centreville) which use private water systems. The same report lists 57 residences in East St. Louis and 365 residences in Sugarloaf Township (includes Dupo, North Dupo and East Carondelet). SIMRPC based their report on 1980 census data. Reference #4 contains a map which pin-points some of the ISWS well locations and a printout of area wells.

As noted previously, the site drainage is controlled by the railroad embankments. A 500-year levee protects the site from the rivers flood events. Any drainage that should

happen to runoff the site, would make its way to the Mississippi River via the American Bottoms Waste Water Treatment Plant (WWTP). A 15-mile surface water map is included in Section 3 of this report. The probable point of entry (PPE) is the American Bottoms outfall at river mile 178.2. The average discharge of the Mississippi River, as measured over a 128 year period at St. Louis, Missouri, is 179,800 cubic feet per second. The 15-mile surface water target limit extends to Mississippi River mile 163.2.

Surface water use in the immediate area (from Mississippi River mile 174 to 178) is limited to recreation and freight trafficking. There is an upstream surface water intake at river mile 181, which supplies most of the Illinois side area residents, was mentioned in a previous paragraph. The city of St. Louis is also supplied by an upstream surface water intake, about 12 miles north at river mile 190. At downstream river mile 149 (about 28 river miles south of area), the village of Crystal City, Missouri (population 4000) utilizes a Ranney well, adjacent the Mississippi River, for drinking water. A well of this kind, is assumed to draw in surface water due to its construction and location to the river. On the Illinois side, the nearest downstream surface water intake is located approximately 65 miles south of the area, at river mile 110. The intake is used by the town of Chester and surrounding communities in Randolf County.

According to the Illinois Department of Conservation (IDOC), the Resource Inventory for the Mississippi River at river miles 178-162 shows fishing areas, sport fishing areas, important wildlife habitat and bald eagle use at selected areas in this reach. Correspondence from IDOC details the aforementioned sensitive areas in Reference #6.

Although air samples and soil gas samples were not collected from Site P, the potential for an air release exists. As explained earlier in this report, the elevated HNu readings during the site reconnaissance, denote off-gassing of contaminated soil which could relate to a air release. Access to the site is not controlled. There are no homes or schools that border the site.

It has been estimated that about 2000 people live within a mile Site P and about 148,000 people live within 4-miles, based on 1990 U.S. Census figures. The table on the following page shows the 4-mile radius population calculation. According to the Illinois Department of Commerce and Community Affairs (1988), approximately 3,200 people are employed within 2 miles of the site.

Target Population Calculation

City	Population Density/ Total Population	Area w/in 4-Mile Radius	Population w/in 4-Mile Radius
St. Louis	7,379/sq mi	11.5 sq mi	84,826
E. St. Louis	4,119/sq mi	8.5 sq mi	34,875
Alorton	2,237	100%	2,237
Cahokia	18,904	100%	18,904
Centreville	9,747	75%	7,310

Total Target Population = 148,152

A high priority has been assigned to this site. In order to quantitatively determine the threat posed by the former landfill, a CERCLA Screening Site Inspection should be conducted at PT's Show Club (Sauget/Monsanto Landfill or Site P) to more accurately assess the health risks and environmental threat posed by it.

BIBLIOGRAPHY

Bureau of the Census. County and City Data Book. 1990 U.S. Census data.

Illinois Department of Commerce and Community Affairs, 1988, Illinois Manufacturers Directory, published by Manufactures' News, Inc.

Illinois Department of Energy and Natural Resources, State Water Survey, water well records of wells in St. Clair County, Townships 1 and 2 North, Ranges 10 and 9 West.

Illinois Environmental Protection Agency, Division of Land Pollution Control file L 1631210002.

Ecology and Environment. May, 1988, Expanded Site Investigation Dead Creek Project Sites at Cahokia/Sauget, Illinois prepared for Illinois Environmental Protection Agency, Division of Land Pollution Control.

Lutz, Richard W. Illinois Department of Conservation, Division of Planning, Impact Analysis Section Supervisor. June 24, 1991. Personal correspondence.

Moore, Bonnie. Southwestern Illinois Metropolitan Planning Commission, (618) 344-4250, Telephone interview.

U.S. Department of the Interior. Water Resources Data - Illinois, Water Year 1989 Volume 1. Illinois except Illinois River Basin. U.S. Geological Survey, 1990

U.S. Geological Survey, 1974, Monks Mound, IL. Quadrangle (225A), 1982, Granite City, IL-MO Quadrangle (225B), 1974, Cahokia, IL-MO. Quadrangle (225C), 1982, French Village, IL Quadrangle (225D), 7.5 Minute Series

U.S. Department of the Interior. Fish and Wildlife Service, National Wetlands Inventory Maps: Monks Mound, IL. Quadrangle (225A), Granite City, IL-MO Quadrangle (225B), Cahokia, IL-MO Quadrangle (225C), French Village, IL. Quadrangle (225D).

SECTION 2

EPA FORM 2070-12

"Potential Hazardous Waste Site
Preliminary Assessment"

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: 984809293

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
PT's Show Club	400 Monsanto Avenue				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Sauget	IL	62201	St. Clair	163	23
09 COORDINATES LATITUDE: 383615.0	LONGITUDE: 0901045.0	Cahokia, IL-MO Quadrangle (22SC)			

10 DIRECTIONS TO SITE (Starting from nearest public road)
See map section of report

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
Bank of Belleville, Illinois Trust Property for Paul Sauget ↑ Now Magna Bank	19 Public Square			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER	
Belleville	IL	62220	(618) 234-0020	
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	
			( )	

13 TYPE OF OWNERSHIP (Check one)
■ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
■ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
■ YES ☐ NO DATE ___/___/'74-'84 (MONTH DAY YEAR)
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ■ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ■ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1972 (BEGINNING YEAR) | 1984 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Heavy metals, BTEX's, Chlorinated Solvents (toxic, persistent)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Groundwater (population, environment)
Air (population, environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
■ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER
				( )
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Timothy J. Murphy	IEPA	DLPC/RPMS	(217) 782-6760	08/12/91 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	984809293

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

(A) SOLID
B POWDER, FINES
C SLUDGE
E SLURRY
(F) LIQUID
G GAS
D OTHER ____ (Specify)

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)
TONS
CUBIC YARDS 117,000 Edwin Cooper filter cake
NO OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

(A) TOXIC
(B) CORROSIVE
C RADIOACTIVE
(D) PERSISTENT
E SOLUBLE
F INFECTIOUS
(G) FLAMMABLE
(H) IGNITABLE
I HIGHLY VOLATILE
J EXPLOSIVE
K REACTIVE
L INCOMPATIBLE
M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN		
IOC	INORGANIC CHEMICALS	≈ 25	12-15 gallons	(P255) removed from Idfl
ACD	ACIDS			
BAS	BASES	117,000	cu yds	Edwin Cooper filter cake (pH 11.22)
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
UNK	"Monsanto ACL-85 Chlorine	UNKNOWN	landfilled	UNKNOWN	
	Composition"				
MES	lead	N.A.	components of filter cake	18.4	mg/kg
MES	cadmium	N.A.		1.8	"
MES	zinc	N.A.		7220	"
IOC	phosphorus pentasulfide	1314803		UNKNOWN	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

IEPA Div. of Land Pollution Control file L1631210002

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 9848092 93

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ● OBSERVED (DATE 5-26-91) — ○ POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >25 — 04 NARRATIVE DESCRIPTION

PT's well on-site was found to contain chloroform - also found in subsurface soil samples. Illinois-American Water Co. water line runs through the landfill.

01 □ B. SURFACE WATER CONTAMINATION — 02 □ OBSERVED (DATE: ____) — □ POTENTIAL — □ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

None documented or observed

01 ■ C. CONTAMINATION OF AIR — 02 □ OBSERVED (DATE ____) — ■ POTENTIAL — □ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

Soil off-gassing was documented by IEPA during site reconnaissance 5/26/91.

01 ■ D. FIRE/EXPLOSIVE CONDITIONS — 02 ■ OBSERVED (DATE 1978-1979) — □ POTENTIAL — □ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

According to the site operator at that time, Monsanto ACL filter residues and packages would occasionally ignite when it came in contact with the filter cake waste from Edwin Cooper.

01 ■ E. DIRECT CONTACT — 02 □ OBSERVED (DATE ____) — ■ POTENTIAL — □ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

PT's (Commercial establishment) built on-site, leachable slag and cinders used as cover

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE 2-12-87) — □ POTENTIAL — □ ALLEGED
03 AREA POTENTIALLY AFFECTED: ≈ 20 (Acres) — 04 NARRATIVE DESCRIPTION

Volatiles, semi-volatiles and metals found in on-site subsurface soil samples which is summarized in report.

01 ■ G. DRINKING WATER CONTAMINATION — 02 ● OBSERVED (DATE 5-26-91) — □ POTENTIAL — □ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >25 — 04 NARRATIVE DESCRIPTION

See A. above

01 □ H. WORKER EXPOSURE/INJURY — 02 □ OBSERVED (DATE ____) — □ POTENTIAL — □ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

None documented or observed

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ■ OBSERVED (DATE ____) — □ POTENTIAL — □ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

See A. above

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 9848090293

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J. DAMAGE TO FLORA — 02 ■ OBSERVED (DATE: 12/77) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Slag and cinders used as daily and final cover which will not promote a good revegitation of the landfill

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
None documented or observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ M. UNSTABLE CONTAINMENT OF WASTES (Spills, runoff, standing liquids, flooding, slumps) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
See J. above

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ■ OBSERVED (DATE: Dec. 1977) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Montonto dumped x 25 containers of phosphorus pentasulfide (flammable) into ldfl. also Monsanto ACL-85 chlorine composition. The PZ55 was removed from the ldfl by Monsanto

06 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 225

IV. COMMENTS

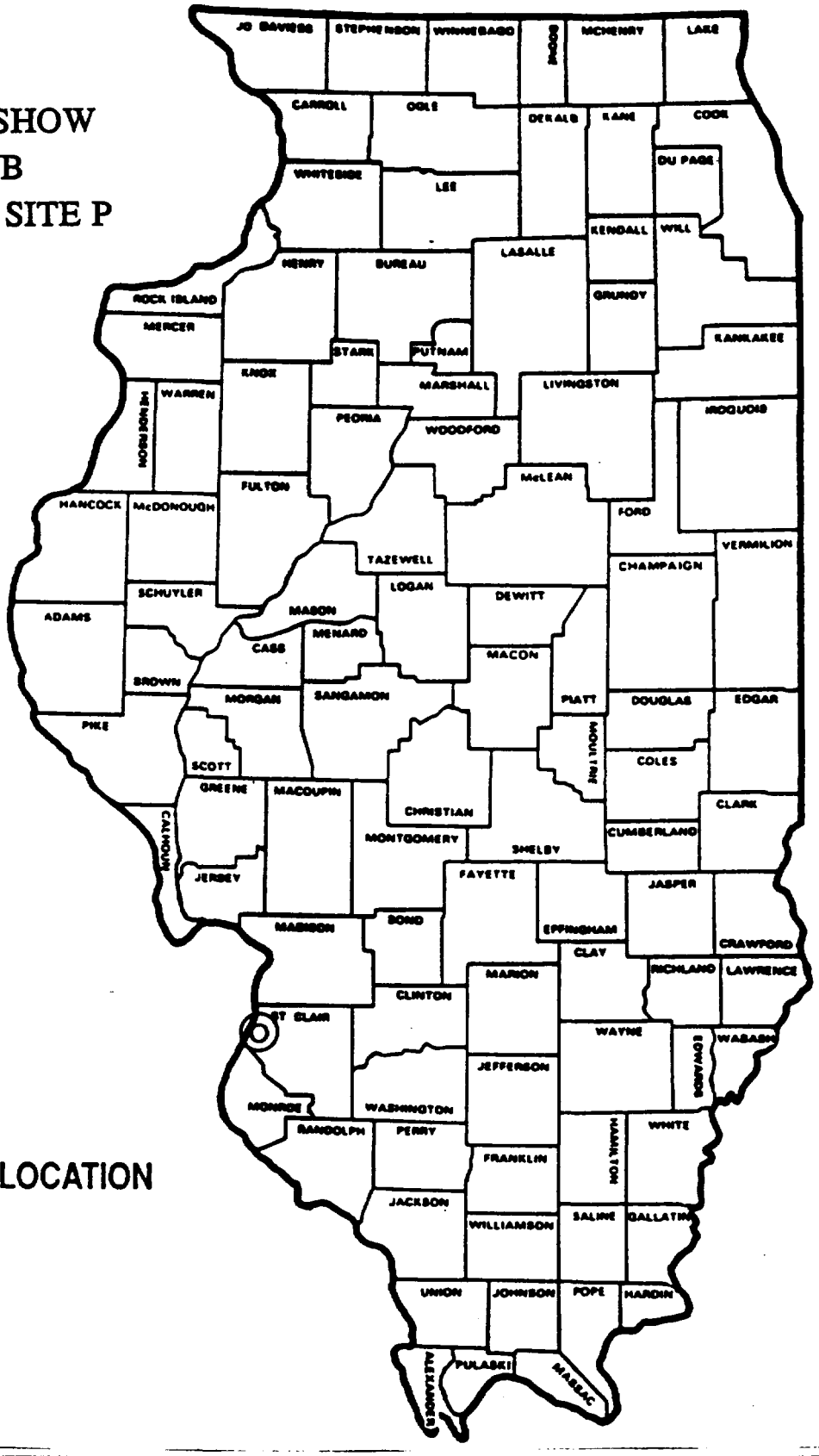
V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)
IEPA Div. of Land Pollution Control file L1631210002

EPA FORM 2070-12 (7-81)

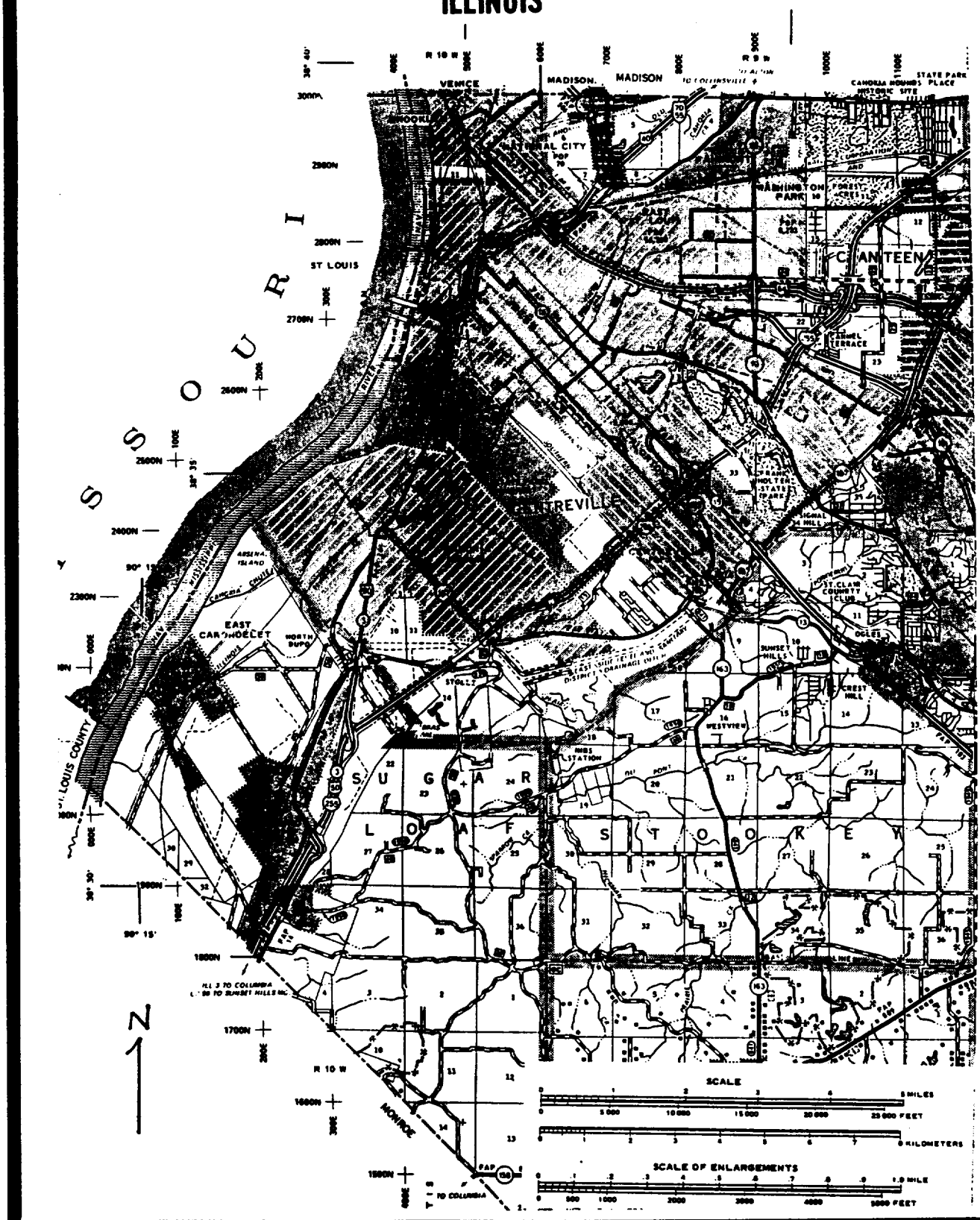
SECTION 3

MAPS

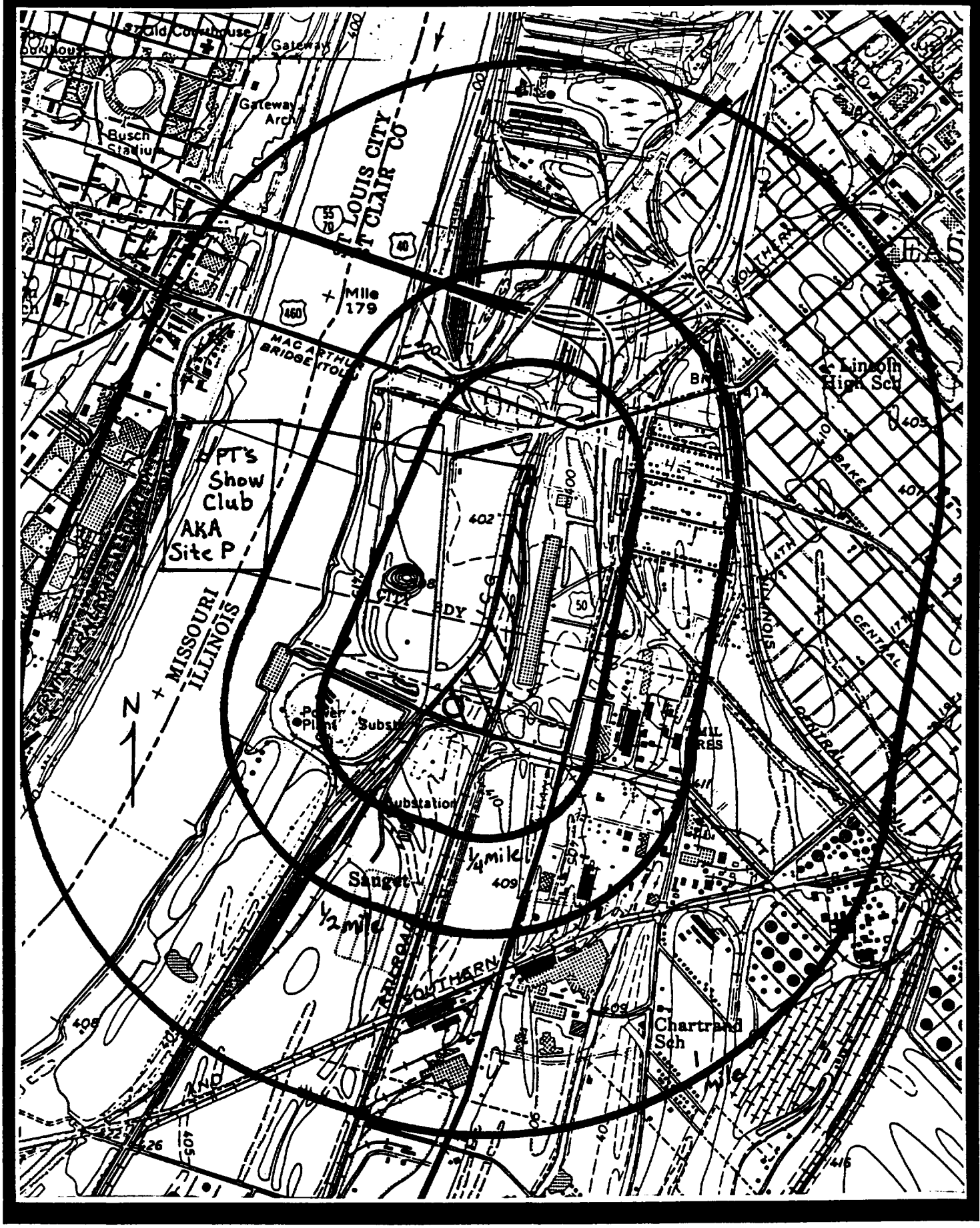
PT'S SHOW
CLUB
AKA SITE P



SITE LOCATION



PA: PT's Show Club AKA Sauget/Monsanto Ldfl, Site P ILD984809293

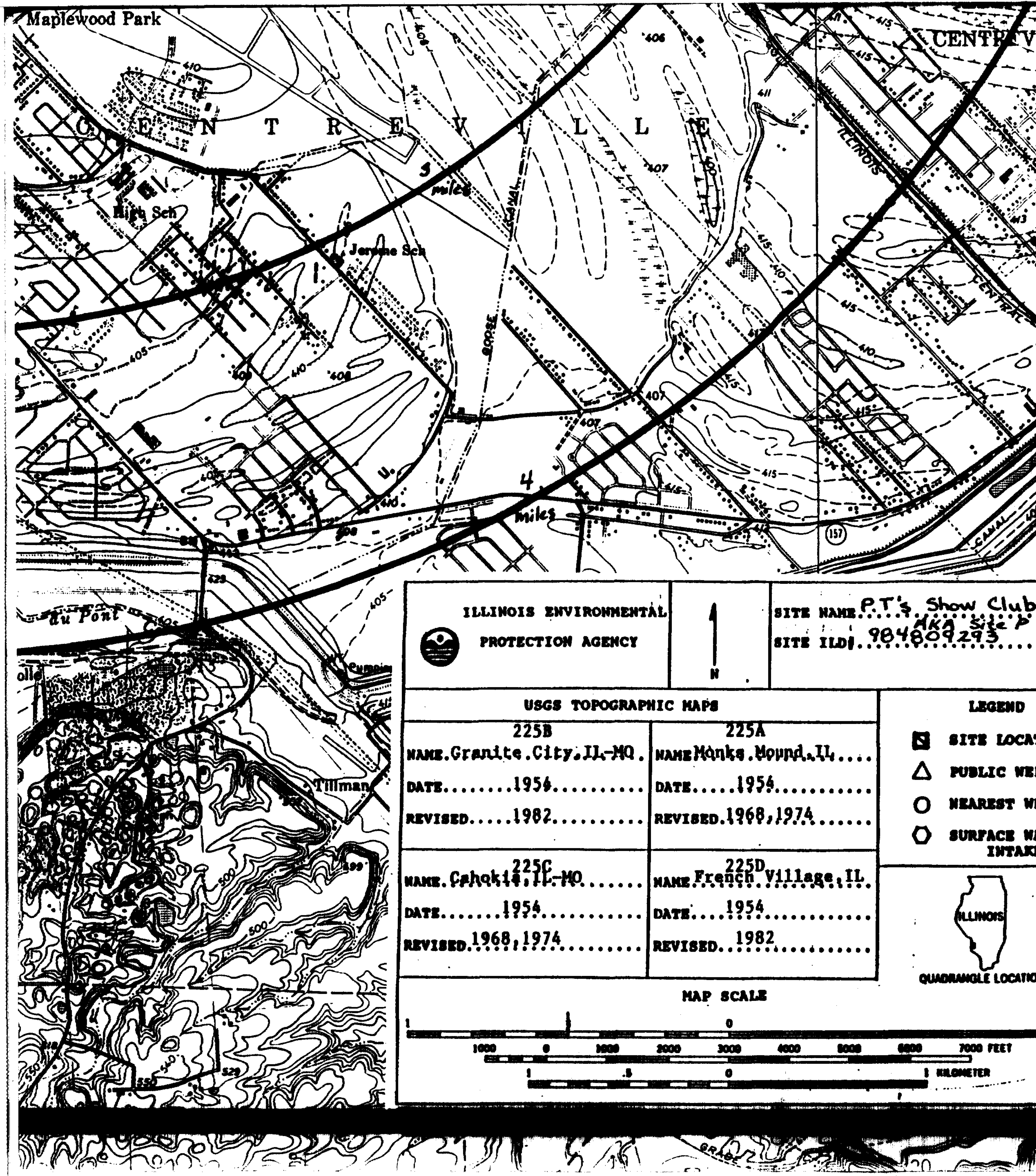


PA: PT's Show Club AKA Sauget/Monsanto Ldfl, Site P ILD984809293

SDMS US EPA REGION V
FORMAT- OVERSIZED - 5
IMAGERY INSERT FORM

The item(s) listed below are not available in SDMS. In order to view original document or document pages, contact the Superfund Records Center.

SITE NAME	**SAUGET AREA 1**		
DOC ID #	**153498**		
DESCRIPTION OF ITEM(S)	**USGS TOPOGRAPHIC MAPS**		
REASON WHY UNSCANNABLE	**_X_ OVERSIZED**	**OR**	**___ FORMAT**
DATE OF ITEM(S)	**1974/1988**		
NO. OF ITEMS	**2**		
PHASE	**SAS**		
PRP	**SAUGET AREA 1**		
PHASE (AR DOCUMENTS ONLY)	**___ Remedial ___ Removal ___ Deletion Docket ___ AR** **___ Original ____ Update # ____ Volume ____ of ____**		
O.U.			
LOCATION	**Box # _____ Folder # _____ Subsection _____**		
COMMENT(S)			
PARTIAL COPY			



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

N

SITE NAME P.T's Show Club
AKA Site P

SITE ILD# 984809293

USGS TOPOGRAPHIC MAPS	
225B	225A
NAME Granite City, IL-MO	NAME Monks Mound, IL
DATE 1954	DATE 1954
REVISED 1982	REVISED 1968, 1974
225C	225D
NAME Cahokia, IL-MO	NAME French Village, IL
DATE 1954	DATE 1954
REVISED 1968, 1974	REVISED 1982

LEGEND

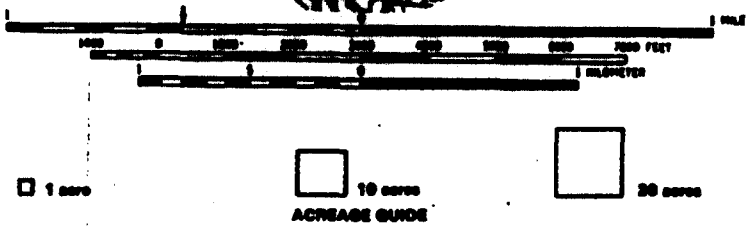
- SITE LOCAT
- PUBLIC WEL
- NEAREST WE
- SURFACE WA INTAKE

MAP SCALE

1 0

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER



1 acre

10 acres

20 acres

ACREAGE GUIDE

Other information including a narrative report concerning the wetland resources depicted on this document may be available. For information, contact:

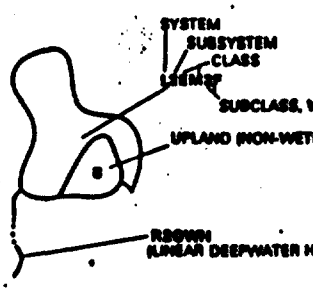
Regional Director (ARDE) Region III
U.S. Fish and Wildlife Service
Federal Bldg., Ft. Snelling (AD/BSP)
Twin Cities, Minnesota 55111

SPECIAL NOTE

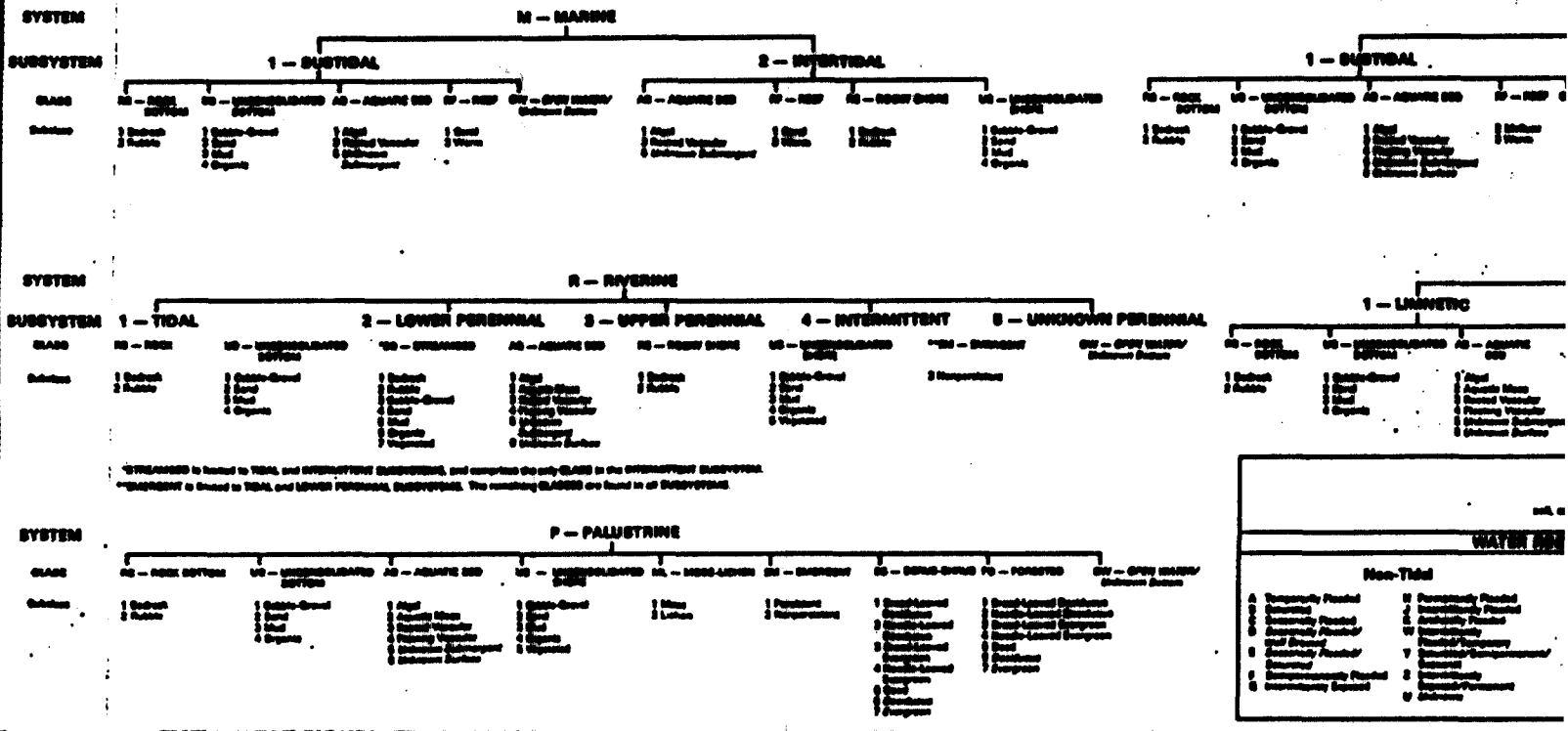
This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deepwater Habitats of the United States (FWS/OBS - 79/31 December 1979). The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE



B – Primarily represents upland areas, unclassified wetlands such as man-made, photo-identifiable areas and/or water



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	SITE: PT's Show Club AKA Sauget/Monsanto Ldfl., Site P SITE ILD 984809293
QUAD: Webster Groves, MO-IL NUMBER: 224 D DATE: 1974/1988 Wetland	QUAD: Cahokia, IL-MO NUMBER: 225 C DATE: 1974/1988 Wetland

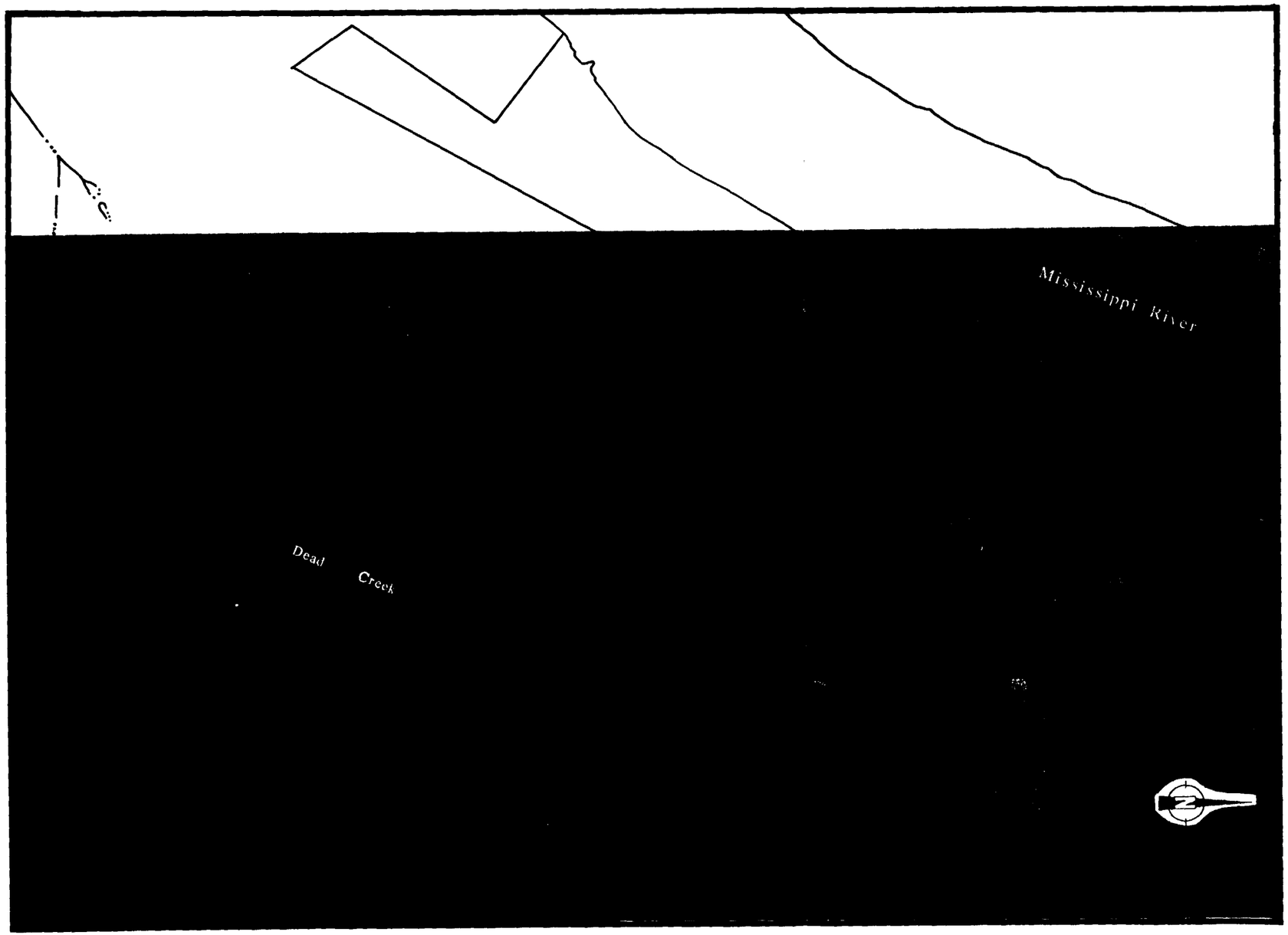
SECTION 4

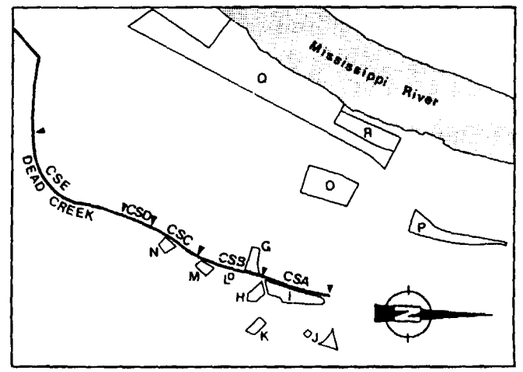
PHOTOGRAPHS

SDMS US EPA REGION V
FORMAT- OVERSIZED - 5
IMAGERY INSERT FORM

The item(s) listed below are not available in SDMS. In order to view original document or document pages, contact the Superfund Records Center.

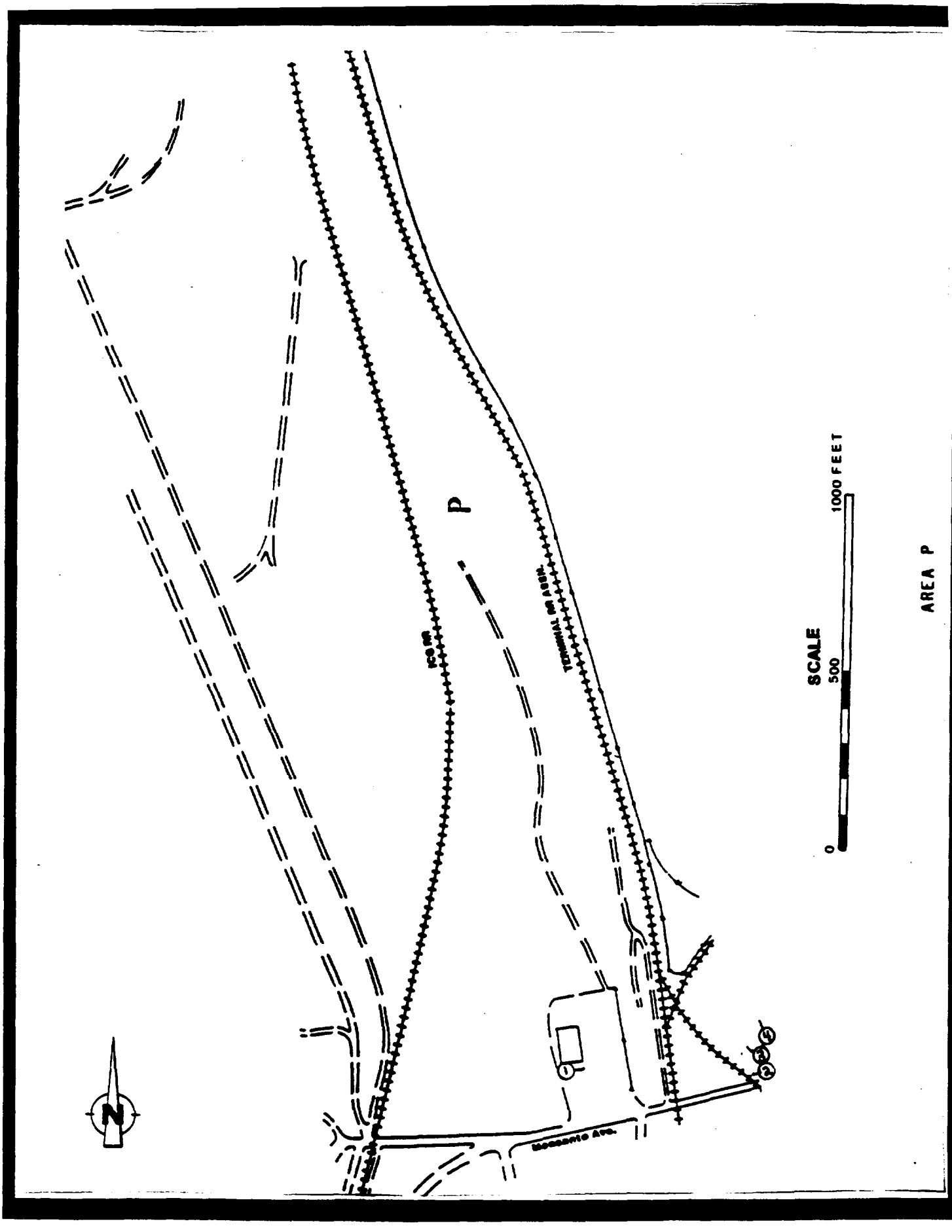
SITE NAME	**SAUGET AREA 1**		
DOC ID #	**153498**		
DESCRIPTION OF ITEM(S)	**AERIAL PHOTOGRAPH/ INDIVIDUAL COLOR PHOTOS**		
REASON WHY UNSCANNABLE	**_X_ OVERSIZED**	**OR**	**_X_ FORMAT**
DATE OF ITEM(S)			
NO. OF ITEMS	**3**		
PHASE	**SAS**		
PRP	**SAUGET AREA 1**		
PHASE (AR DOCUMENTS ONLY)	**___ Remedial ___ Removal ___ Deletion Docket ___ AR** **___ Original ____ Update # ___ Volume ____ of ___**		
O.U.			
LOCATION	**Box # _____ Folder # _____ Subsection _____**		
COMMENT(S)			
AERIAL MAP **FIGURE 4-3**			





SITE LOCATION INDEX MAP

AERIAL PHOTOGRAPH
OF DCP AREA - 1978



Photograph Location Map

DATE: June 27, 1991

TIME: 11:25 AM

PHOTOGRAPH TAKEN BY:

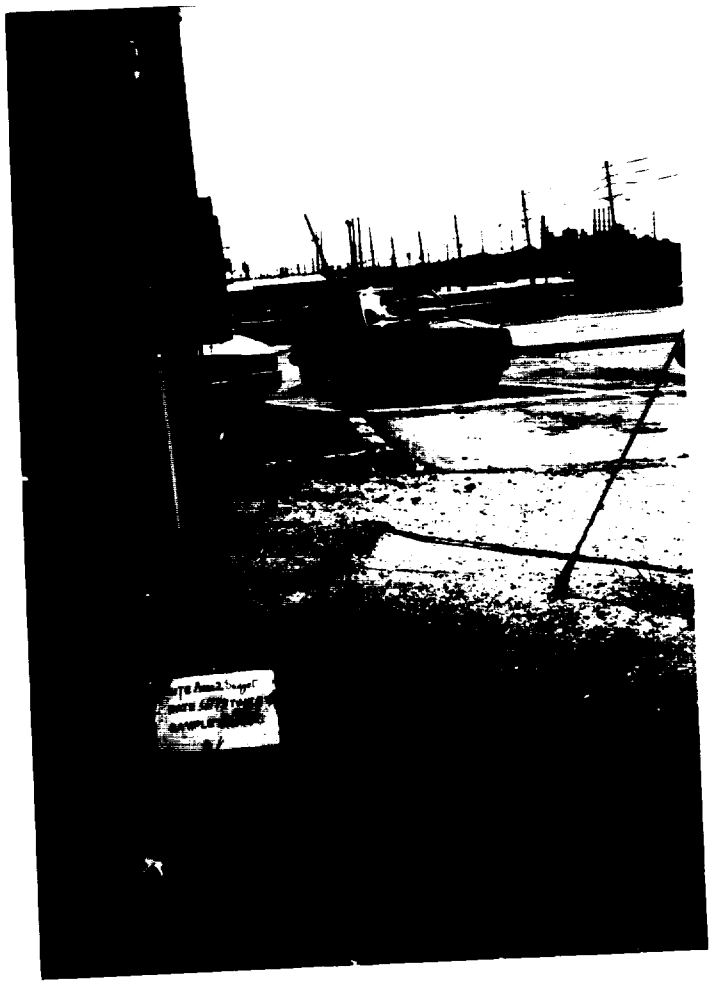
Kim Nika

PHOTOGRAPH NUMBER: 1

LOCATION: PT's Show Club Monsanto Ave., Sauget, IL

PICTURE TAKEN TOWARD: E

COMMENTS: The spigot on the S. side of PT's Show Club where sample G201 was collected.



DATE: July 31, 1991

TIME: 1:30 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 2

LOCATION: OZ Night Club parking lot, Monsanto Ave., Sauget, IL

PICTURE TAKEN TOWARD: W

COMMENTS: The southern part of the covered Sauget/Monsanto Landfill

DATE: July 31, 1991

TIME: 1:30 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 3

LOCATION: OZ Night Club parking lot, Monsanto Ave., Sauget, IL

PICTURE TAKEN TOWARD: NW

COMMENTS: The central part of the covered Sauget/Monsanto Landfill

DATE: July 31, 1991

TIME: 1:30 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 4

LOCATION: OZ Night Club parking lot, Monsanto Ave., Sauget, IL

PICTURE TAKEN TOWARD: N-NW

COMMENTS: The northern part of the covered Sauget/Monsanto Landfill, left of the RR tracks.

SECTION 5

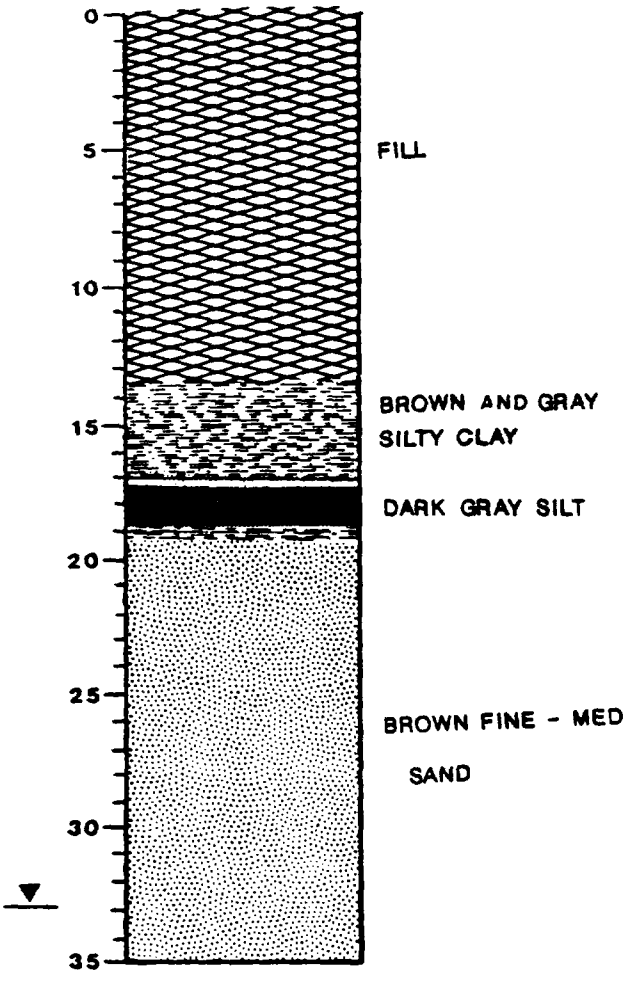
SUPPORTING DOCUMENTATION AND REFERENCES

Reference Number 1

Project Name Dead Creek
Project No. IL 3140
Date Prepared 2-11-87
Prepared by Tim Maley

Depth (ft) Description

P – 1



Boring/Well No. P-1
Location Site P
Owner IEPA
Top of Inner Casing Elev. NA
Drilling Firm Fox drilling
Driller Jerry Hammon
Start & Completion Dates 2/11, 2/11/87
Type of Rig Mobile B-61

Method of Drilling 3 3/4" I.D. hollow stem augers

WELL DATA

Hole Diam. 8 in.
Boring Depth 35.0 ft.
Casing and Screen Diam.
Screen Interval
Screen Type
Stickup
Well Type
Well Construction:
Filter Pack
Seal
Grout
Lock No.

TEST DATA

Static Water Elev. _____ Date _____
Static Water Elev. _____ Date _____
Slug Test Yes____ No____
Test Date
Hydraulic Conductivity
Other

WATER QUALITY

Samples Taken Yes____ No X
No. of Samples
Types of Samples

Date Sampled
Samplers
Samples Analyzed for

Split Samples Yes____ No X
Recipient

Comments Subsurface soil samples from boring 0 - 10' and 25 - 35' analyzed for HSL compounds.

REMARKS

Ground elev. 418.41

Site Dead Creek Site-P

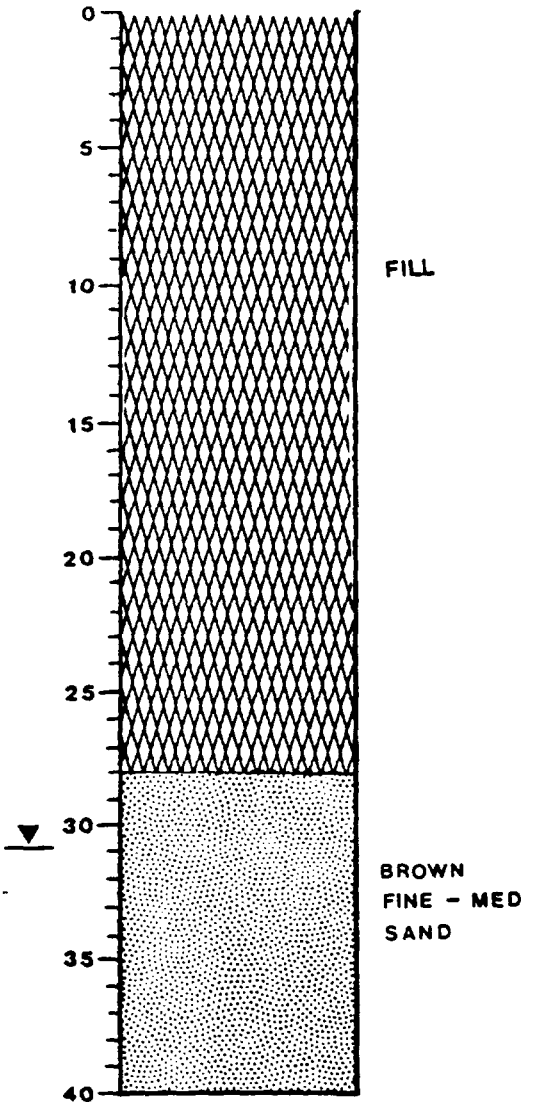
Boring/Well No. P-1

Sample Depth	Blow Count	Description
		Crushed limestone on surface.
1 - 2.5	4-3-3	FILL consisting of black sandy CLAY with crushed limestone, slag gravel, coal, and cinders.
3.5 - 5	4-3-3	Same as above.
6 - 7.5	5-7-25/3	FILL consisting of various debris including paper and plastic products, slag gravel, asphalt, and silty clay. Large obstruction encountered @ 7.5'.
8.5 - 10	6-12-10	FILL consisting of brown silty CLAY with various debris including paper products, small gravel, and fine to coarse grain sand. Wet.
11 - 12.5	6-17-3	Same as above.
		FILL discontinues @ 13.5'
13.5 - 15	3-6-7	Dark brown-dark gray silty CLAY. Slightly mottled. Trace of very fine grain sand. Dry.
16 - 17.5	2-4-6	Same as above to 17'. 4" layer of gray fine grain sand @ 17-17 1/3'. Dry. Then dark gray SILT. Trace of very fine grain sand. Dry.
18.5 - 20	3-5-8	Dark gray very fine grain SAND. Trace of silt. 2" gray silty clay layer @ 19'. Then light gray fine to medium grain SAND. Dry.
21 - 22.5	6-10-12	Brown medium grain SAND. Trace of coarse grain sand and small gravel. Dry.
23.5 - 25	6-13-12	Same as above.
28.5 - 30	2-5-7	Same as above.
33.5 - 35	3-5-10	Same as above. Wet.
		E.O.B. @ 35'.

Project Name Dead Creek
Project No. IL 3140
Date Prepared 2-11-87
Prepared by Tim Maley

Depth (ft) Description

P - 2



Boring/Well No. P-2
Location Site P
Owner IEPA
Top of Inner Casing Elev. NA
Drilling Firm Fox drilling
Driller Jerry Hammon
Start & Completion Dates 2/11, 2/11/87
Type of Rig Mobile B-61

Method of Drilling 3 3/4" I.D. hollow stem augers

WELL DATA

Hole Diam. 8 in.
Boring Depth 40.0 ft.
Casing and Screen Diam.
Screen Interval
Screen Type
Stickup
Well Type
Well Construction:
- Filter Pack
- Seal
- Grout
- Lock No.

TEST DATA

Static Water Elev. ____ Date ____
Static Water Elev. ____ Date ____
Slug Test Yes____ No____
Test Date
Hydraulic Conductivity
Other

WATER QUALITY

Samples Taken Yes____ No X
No. of Samples
Types of Samples

Date Sampled
Samplers
Samples Analyzed for

Split Samples Yes____ No X
Recipient

Comments

REMARKS

Ground elev. 423.62

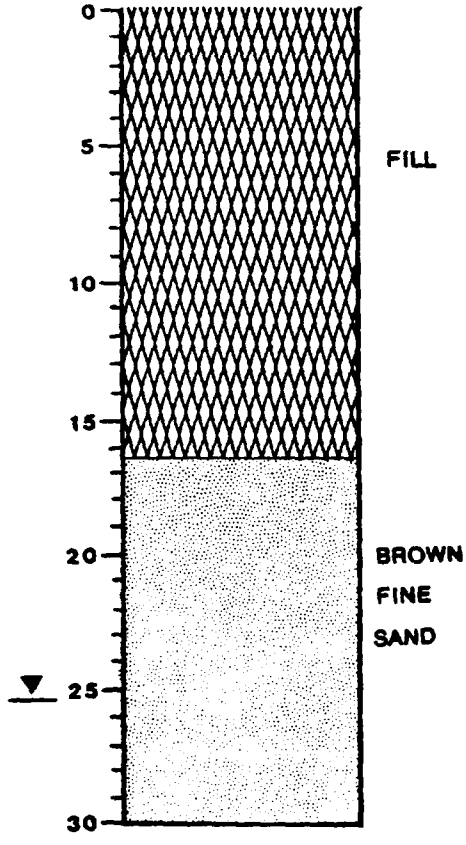
Site Dead Creek Site-P Boring/Well No. P-2

Sample Depth	Blow Count	Description
		Crushed limestone on surface.
1 - 2.5	6-6-7	FILL consisting of black-brown sandy CLAY with various debris including paper and plastic products, wood chips, slag, small gravel, fine to coarse grain sands, and brick fragments. Dry.
3.5 - 5	3-3-7	Same as above.
6 - 7.5	3-4-4	Same as above.
8.5 - 10	2-6-6	Same as above.
11 - 12.5	5-5-7	Same as above.
13.5 - 15	7-7-8	Same as above.
16 - 17.5	4-3-14	Same as above. Moist.
18.5 - 20	6-6-8	Same as above.
21 - 22.5	6 - 50/3	Same as above. Spoon refusal.
23.5 - 25	10-6-28	Same as above. Poor recovery.
26 - 27.5	3-5-5	No recovery. Probably same as above.
		FILL apparently discontinues @ 28'.
28.5 - 30	6-9-12	Dark gray fine to medium grain SAND. Moist.
33.5 - 35	7-11-10	Brown medium grain SAND. Wet.
38.5 - 40	7-12-14	Dense brown fine to medium SAND. Wet.
		E.O.B. @ 40'.

Project Name Dead Creek
Project No. IL 3140
Date Prepared 2-11-87
Prepared by Tim Maley

Depth (ft) Description

P-3



Boring/Well No. P-3
Location Site P
Owner IEPA
Top of Inner Casing Elev. NA
Drilling Firm Fox drilling
Driller Jerry Hammon
Start & Completion Dates 2/11, 2/11/87
Type of Rig Mobile B-61

Method of Drilling 3 3/4" I.D. hollow stem augers

WELL DATA

Hole Diam. 8 in.
Boring Depth 30.0 ft.
Casing and Screen Diam. _____
Screen Interval _____
Screen Type _____
Stickup _____
Well Type _____
Well Construction:
- Filter Pack _____
- Seal _____
- Grout _____
- Lock No. _____

TEST DATA

Static Water Elev. _____ Date _____
Static Water Elev. _____ Date _____
Slug Test Yes____ No____
Test Date _____
Hydraulic Conductivity _____
Other _____

WATER QUALITY

Samples Taken Yes____ No X
No. of Samples _____
Types of Samples _____

Date Sampled _____
Samplers _____
Samples Analyzed for _____

Split Samples Yes____ No X
Recipient _____

Comments _____

REMARKS

Ground elev. 419.36

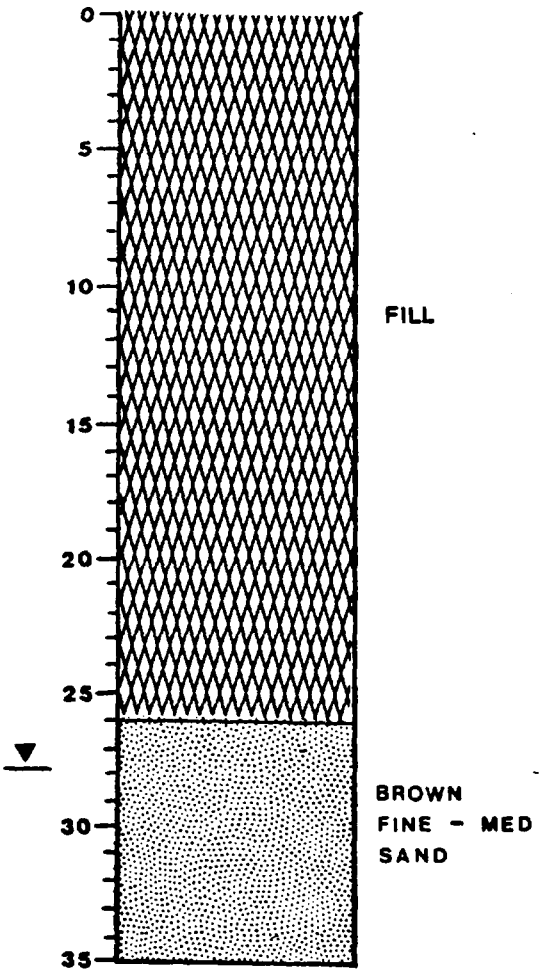
Site Dead Creek Site-P Boring/Well No. P-3

Sample Depth	Blow Count	Description
		Black cinder fill on surface.
1 - 2.5	7-9-12	FILL consisting of black and brown sandy clay with various debris material including paper products, wood chips, cloth, tin, rubber, slag, cinders, crushed limestone, an off-white crystalline substance, hay, and fine to coarse grain sand. Dry.
3.5 - 5	3-3-30/6	FILL - same as above.
6 - 7.5	3-3-6	FILL - same as above.
8.5 - 10	6-18-33	FILL - same as above.
11 - 12.5	12-12-13	FILL - poor recovery. Strong moth ball (naphalene) odor.
13.5 - 15	5-7-15	No recovery.
16 - 17.5	6-17-17	FILL - same as above.
		Fill discontinues @ approx. 16.5'.
		Gray silty very fine grain SAND. Dry.
18.5 - 20	5-7-9	Brown fine grain SAND. Dry.
21 - 22.5	4-6-9	Same as above.
23.5 - 25	3-3-5	Same as above. Moist.
26 - 27.5	4-10-8	Same as above. Wet.
28.5 - 30	5-9-11	Same as above. Wet.
		E.O.B. @ 30'

Project Name Dead Creek
Project No. IL 3140
Date Prepared 2-12-87
Prepared by Tim Maley

Depth (ft) Description

P - 4



Boring/Well No. P-4
Location Site P
Owner IEPA
Top of Inner Casing Elev. NA
Drilling Firm Fox drilling
Driller Jerry Hammon
Start & Completion Dates 2/12, 2/12/87
Type of Rig Mobile B-61

Method of Drilling 3 3/4" I.D. hollow stem augers

WELL DATA

Hole Diam. 8 in.
Boring Depth 35.0 ft.
Casing and Screen Diam.
Screen Interval
Screen Type
Stickup
Well Type
Well Construction:
Filter Pack
Seal
Grout
Lock No.

TEST DATA

Static Water Elev. _____ Date _____
Static Water Elev. _____ Date _____
Slug Test Yes____ No____
Test Date
Hydraulic Conductivity
Other

WATER QUALITY

Samples Taken Yes____ No X
No. of Samples
Types of Samples

Date Sampled
Samplers
Samples Analyzed for

Split Samples Yes____ No X
Recipient

Comments Subsurface soil samples from boring 0 - 10' and 25 - 35' analyzed for HSL compounds.

REMARKS

Slight organic odor.

Ground elev. 424.65

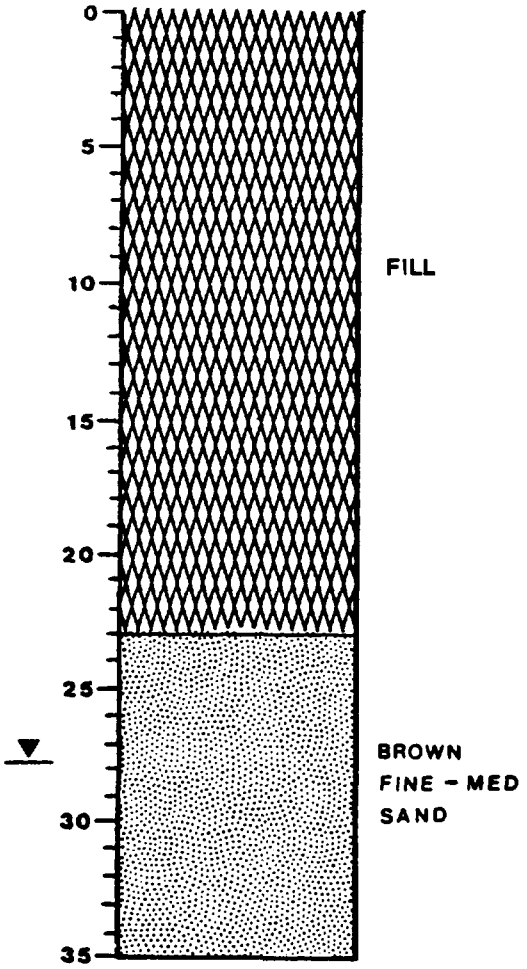
Site Dead Creek Site-P Boring/Well No. P-4

Sample Depth	Blow Count	Description
		Fill material on surface.
1 - 2.5	3-3-5	FILL consisting of dark brown-black silty clay; some crushed limestone, small gravel, and fine to medium grain sand.
3.5 - 5	4-9-8	FILL - same as above with more debris material including paper products and wood chips.
6 - 7.5	3-4-6	FILL - same as above.
8.5 - 10	5-7-22	FILL - same as above.
11 - 12.5	6-7-7	FILL - poor recovery.
13.5 - 15	2-9-5	No recovery.
16 - 17.5	7-14-19	FILL consisting of brown silty CLAY. Some medium-coarse grain sand and small gravel. Trace of a pale yellow solid (hard and brittle) substance. Dry.
18.5 - 20	2-10-2	FILL - same as above. Trace of paper products and wood chips.
21 - 22.5	13-27-17	FILL - same as above with additional debris including asphalt, slag, crushed limestone, wire, and gravel.
23.5 - 25	4-6-8	FILL - same as above.
		Fill discontinues at approx. 26'.
26 - 27.5	3-4-4	Brown fine grain SAND. Trace of silt. Moist.
28.5 - 30	5-10-10	Same as above. Wet.
31 - 32.5	3-6-10	Brown fine to medium grain SAND. Wet.
33.5 - 35	5-10-13	Same as above. Trace of coarse grain sand. Wet.
		E.O.B. @ 35'

Project Name Dead Creek
Project No. IL 3140
Date Prepared 2-12-87
Prepared by Tim Maley

Depth (ft) Description

P - 5



Boring/Well No. P-5
Location Site P
Owner IEPA
Top of Inner Casing Elev. NA
Drilling Firm Fox drilling
Driller Jerry Hammon
Start & Completion Dates 2/12, 2/12/87
Type of Rig Mobile B-61

Method of Drilling 3 3/4" I.D. hollow stem augers

WELL DATA

Hole Diam. 8 in.
Boring Depth 35.0 ft.
Casing and Screen Diam.
Screen Interval
Screen Type
Stickup
Well Type
Well Construction:
Filter Pack
Seal
Grout
Lock No.

TEST DATA

Static Water Elev. _____ Date _____
Static Water Elev. _____ Date _____
Slug Test Yes ___ No ___
Test Date
Hydraulic Conductivity
Other

WATER QUALITY

Samples Taken Yes ___ No X
No. of Samples
Types of Samples

Date Sampled
Samplers
Samples Analyzed for

Split Samples Yes ___ No X
Recipient
Comments Subsurface soil samples from boring 10 - 25' analyzed for HSL compounds.

REMARKS

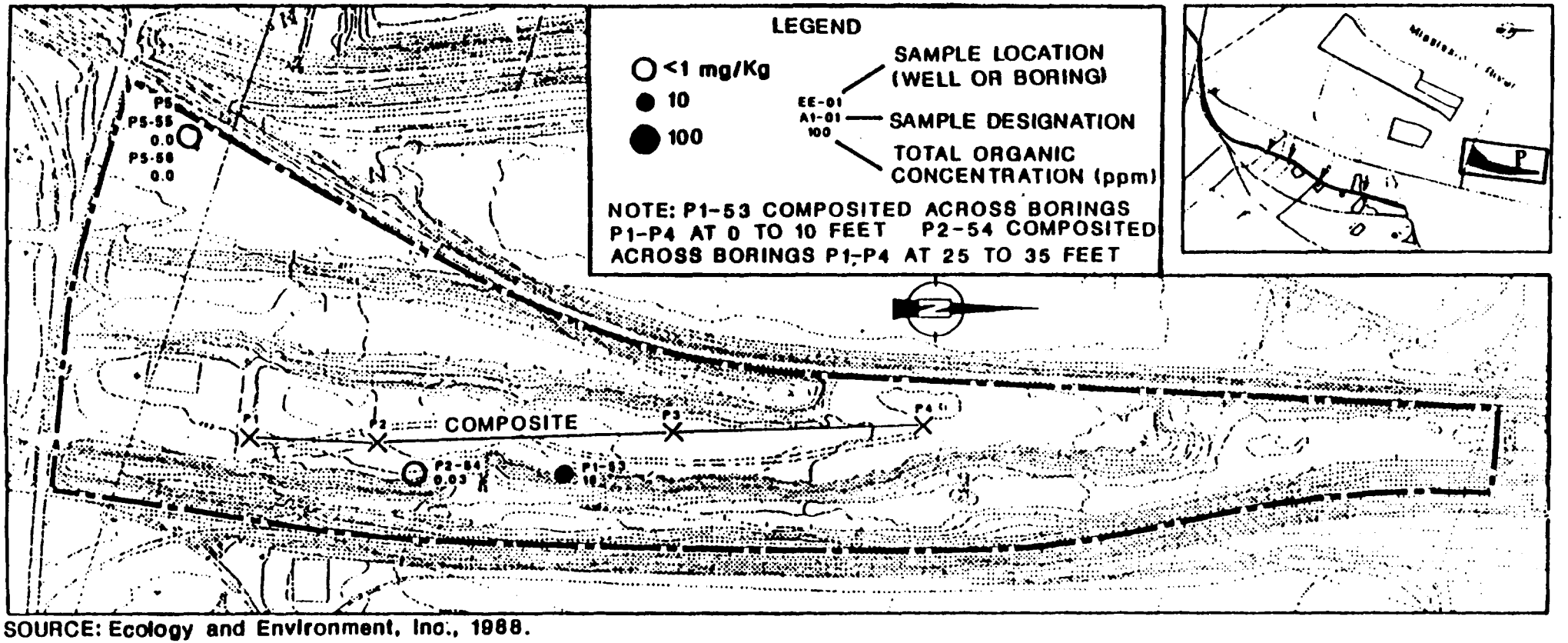
Slight organic odor

Ground elev. 422.98

Site Dead Creek Site-P Boring/Well No. P-5

Sample Depth	Blow Count	Description
		Grass field area on surface.
1 - 2.5	4-5-7	FILL consisting of loose brown-black silty clay with crushed limestone, brick fragments, sand, and small gravel. Dry.
3.5 - 5	4-3-4	FILL - same as above with slag and cinder material.
6 - 7.5	1-2-1	FILL - same as above.
8.5 - 10	1-1-2	FILL consisting of brown-red silty clay. Mottled. Some medium grain sand and small gravel.
11 - 12.5	2-2-2	FILL consisting of brown silty CLAY.
13.5 - 15	1-1-2	FILL - same as above.
16 - 17.5	1-1-1	FILL consisting of brown silty CLAY. Trace of fine grain sand. Moist.
18.5 - 20	1-1-4	FILL - same as above. Trace of small gravel and asphalt.
21 - 22.5	1-2-3	FILL - same as above. Mottled.
		Fill discontinues @ approx. 23'.
23.5 - 25	2-4-7	Light brown fine to medium SAND. Dry.
26 - 27.5	2-4-6	Light brown fine to medium grain SAND. Trace of silt. Dry.
28.5 - 30	2-4-5	Brown fine grain SAND. Wet.
31 - 32.5	6-7-8	Same as above. Trace of coarse grain sand. Wet.
33.5 - 35	7-11-13	Same as above. Trace of coarse grain sand and small gravel. Wet.
		E.O.B. @ 35'

Reference Number 2



SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET

FIGURE 4-46 TOTAL ORGANIC CONCENTRATIONS IN SUBSURFACE SOILS AT SITE P

Table 4-19

SUMMARY OF SUBSURFACE SOIL SAMPLE RESULTS FOR SITE P

Chemical Name	Number of Times Detected*	Highest Concentration Detected (mg/kg)	Sample Containing Highest Concentration
Volatile Organics			
ethylbenzene	1	0.12	P1-53
toluene	1	0.41	P1-53
chloroform	1	0.01	P1-53
benzene	1	0.05	P1-53
4-methyl-2-pentanone	2	0.05	P1-53
chlorobenzene	1	0.14	P1-53
xylenes	1	0.45	P1-53
hexanone	2	0.05	P1-53
Semivolatile Organics			
1,4-dichlorobenzene	1	8.9J	P1-53
1,2-dichlorobenzene	1	3.6J	P1-53
phenol	1	3.9J	P1-53
Pesticides/PCBs			
None detected.			

* A total of 4 subsurface soil samples were collected from Site P. The numbers listed represent the number of samples, of the total of 4, in which each compound was detected.

J Estimated value. Result is greater than zero, but less than specified detection limit.

Source: Ecology and Environment, Inc. 1988.

Explanation For Analytical Data Summary Tables

All ground water results in ug/l.
All soil/sediment organic results in ug/kg
All soil/ sediment inorganic results in mg/kg

For sample location headings, the following qualifiers are used :

+	Denotes blank samples.
*	Denotes duplicate samples.
^	Denotes that sample was not analyzed for the compounds listed.

For chemical results, the folling qualifiers are used :

B	Compound detected in blank samples.
J	Estimated value . Result is less than the specified detection limit, but greater than zero.
E	Estimated value. Concentration detected exceeds the calibrated range.
C	Result confirmed by GC/MS.
*	Duplicate analysis not with in control limits.
R	Spike sample recovery not with in control limits.

Subsurface Soils Volatiles

	SITE	SITE J	SITE J	SITE K	SITE K	SITE K	BLANK	SITE L	SITE L	SITE L	SITE L	SITE L	SITE M	SITE M	BLANK	SITE P
	SAMPLE NUMBER	DC-J2-12	DC-J3-13	DC-K1-08	DC-K2-25	DC-K3-32	DC-LB-01 +	DC-L1-02	DC-L2-03	DC-L3-04	DC-L4-09	DC-L4-10 B	DC-M1-05	DC-M2-06	DC-MB-07 +	DC-P1-53
	SAMPLE DEPTH	15'-25'	0-10'	0-10'	0-10'	10'-20'		5'-10'	5'-15'	5'-15'	10'-20'	10'-20'	0-10'	5'-15'		0-10'
	DATE SAMPLED	12-17-86	12-17-86	12-16-87	1-12-87	1-22-87	12-12-86	12-12-86	12-12-86	12-12-86	12-17-86	12-17-86	12-15-86	12-15-86	12-16-86	2-11-87
1	Chloroethane															
2	Bromomethane															
3	Vinyl Chloride															
4	Chloroethane															
5	Methylene Chloride	372 BJ	3 BJ	6 B	13 B	9 B	17 B	14 B	141 B	2278 B	B	5 J	4 BJ	6 J	4 BJ	18
6	Acetone	4487 B	467 BE	212 B	44 B	1003 EB	32 B	907 B	449 B	4557 B	32 B	81 B	45 B	11 BJ	23 B	1025
7	Carbon Disulfide															
8	1,1-Dichloroethene															
9	1,1-Dichloroethane															
10	trans-1,2-Dichloroethene															
11	Chloroform									20253	96	49				13
12	1-2-Dichloroethane															
13	2-Butanone (MEK)	6026 B		25 B	29 B	29 B		16		10000 B	16 B			14 J		188
14	1,1,1-Trichloroethane															
15	Carbon Tetrachloride															
16	Vinyl Acetate															
17	Bromodichloromethane															
18	1,2-Dichloropropane															
19	trans-1,3-Dichloropropene															
20	Trichloroethene															
21	Dibromochloromethane															
22	1,1,2-Trichloroethane															
23	Benzene								141	4177	7 J	4 J				49
24	cis-1,3-Dichloropropene															
25	2-Chloroethyl Vinyl Ether															
26	Bromoform															
27	4-Methyl-2-pentanone		4 J	11 J				8 J	167		68 B	49 B	4 J			49
28	2-Hexanone															38
29	Tetrachloroethene															
30	1,1,2,2-Tetrachloroethane															
31	Toluene			15					2179	26582	93	50				413
32	Chlorobenzene															138
33	Ethylbenzene	2051							40 J							119
34	Styrene															
35	Total Xylenes	7949							179	670 J						450

Subsurface Soils Volatiles

	SITE	SITE P	SITE P	SITE P	SITE O	SITE O	SITE O	SITE O	SITE O	SITE O	BLANK	SITE O	SITE O	SITE O	SITE O	SITE O
	SAMPLE NUMBER	DC-P2-54	DC-P5-55	DC-P5-56 D	DC-01-59	DC-02-60	DC-03-61	DC-04-62	DC-05-63	DC-05-64 D	DC-08-65 +	DC-06-66	DC-09-72	DC-09-73	DC-010-74	DC-010-75
	SAMPLE DEPTH	25'-35'	10'-25	10'-25'	15'-25'	20'-30'	10'-20'	0-10'	8.5'-20'	8.5'-20'		15'-25'	0-10'	15'-20'	5'-10'	10'-15'
	DATE SAMPLED	2-11-87	2-12-87	2-12-87	2-16-87	2-17-87	2-17-87	2-17-87	2-17-87	2-17-87	2-18-87	2-18-87	2-26-87	2-26-87	2-26-87	2-26-87
1	Chloroethane															
2	Bromoethane															
3	Vinyl Chloride															
4	Chloroethane															
5	Methylene Chloride	5 BJ	2 BJ	5 BJ		35	10 J	833 BJ		18 J	139 B	4 J	870 BJ	519 BJ	731 BJ	341 BJ
6	Acetone	1036 BE	333 BE	413 BE	1379 BE	9103 BE	4405 BE	7692 B	8659 BE	11463 BE		457 B		2593 B	3846 B	2514 B
7	Carbon Disulfide															
8	1,1-Dichloroethene															
9	1,1-Dichloroethane					10 J										
10	trans-1,2-Dichloroethene					192	6 J									
11	Chloroform															
12	1-2-Dichloroethane					23										
13	2-Butanone (MEK)	76 B	22 B	26 B	30 B	23641 BE	36 B	7179 B	244 B	171 B		20 B		4444 B	7436 B	6705 B
14	1,1,1-Trichloroethane							1410								
15	Carbon Tetrachloride															
16	Vinyl Acetate															
17	Bromodichloromethane															
18	1,2-Dichloropropane															
19	trans-1,3-Dichloropropene															
20	Trichloroethene					69										
21	Dibromochloroethane															
22	1,1,2-Trichloroethane															
23	Benzene					667	24	30769		18 J					1795	
24	cis-1,3-Dichloropropene															
25	2-Chloroethyl Vinyl Ether															
26	Bromoform															
27	4-Methyl-2-pentanone	29 B				1244 B		7692								
28	2-Hexanone	2 BJ				63										
29	Tetrachloroethene															
30	1,1,2,2-Tetrachloroethane					28										
31	Toluene							29487					293 J		4539	
32	Chlorobenzene					1667	62	38462	74	159			841 J		58974	1250
33	Ethylbenzene					46	167	166667 E	37 J	57 J			2439	74 J	9103	341 J
34	Styrene															
35	Total Xylenes					141	976	615385 E	244	256			21951	235 J	29487	1114 J

Subsurface Soils Semivolatiles

	SITE	SITE N	SITE N	BLANK	SITE P	SITE P	SITE P	SITE P	SITE O	SITE O	SITE O	SITE O	SITE O	SITE O	BLANK
	SAMPLE NUMBER	DC-N1-05	DC-N2-06	DC-MB-07 +	DC-P1-53	DC-P2-54	DC-P5-55	DC-P5-56 #	DC-01-59	DC-02-60	DC-03-61	DC-04-62	DC-05-63	DC-05-64 #	DC-08-65 +
	SAMPLE DEPTH	0-10'	5'-15'		0-10'	25'-35'	10'-25	10'-25'	15'-25'	20'-30'	10'-20'	0-10'	8.5'-20'	8.5'-20'	
	DATE SAMPLED	12-15-86	12-15-86	12-16-86	2-11-87	2-11-87	2-12-87	2-12-87	2-16-87	2-17-87	2-17-87	2-17-87	2-17-87	2-17-87	2-18-87
1	Phenol				3875 J										
2	bis(2-Chloroethyl)ether														
3	2-Chlorophenol														
4	1,3-Dichlorobenzene														
5	1,4-Dichlorobenzene				8875 J										
6	Benzyl Alcohol														
7	1,2-Dichlorobenzene				3625 J							24359 J			
8	2-Methylphenol														
9	bis(2-Chloroisopropyl) ether														
10	4-Methylphenol														
11	N-Nitroso-n-Dipropylamine														
12	Hexachloroethane														
13	Nitrobenzene														
14	Isophorone														
15	2-Nitrophenol														
16	2,4-Dimethylphenol														
17	Benzoic Acid														
18	bis-(2-Chloroethoxy)methane														
19	2,4-Dichlorophenol														
20	1,2,4-Trichlorobenzene											26923 J			
21	Naphthalene											34615 J			
22	4-Chloroaniline														
23	Hexachlorobutadiene														
24	4-Chloro-3-methylphenol														
25	2-MethylNaphthalene											160256			
26	Hexachlorocyclopentadiene														
27	2,4,6-Trichlorophenol														
28	2,4,5-Trichlorophenol														
29	2-Chloronaphthalene														
30	2-Nitroaniline														

Subsurface Soils Semivolatiles

	SITE	SITE N	SITE N	BLANK	SITE P	SITE P	SITE P	SITE P	SITE O	SITE O	SITE O	SITE O	SITE O	SITE O	BLANK
	SAMPLE NUMBER	DC-N1-05	DC-N2-06	DC-NB-07 *	DC-P1-53	DC-P2-54	DC-P5-55	DC-P5-56 *	DC-01-59	DC-02-60	DC-03-61	DC-04-62	DC-05-63	DC-05-64 *	DC-08-65 *
	SAMPLE DEPTH	0-10'	5'-15'		0-10'	25'-35'	10'-25	10'-25'	15'-25'	20'-30'	10'-20'	0-10'	8.5'-20'	8.5'-20'	
	DATE SAMPLED	12-15-86	12-15-86	12-16-86	2-11-87	2-11-87	2-12-87	2-12-87	2-16-87	2-17-87	2-17-87	2-17-87	2-17-87	2-17-87	2-18-87
1	Diaethyl Phthalate														
2	Acenaphtylene														
3	3-Nitroaniline														
4	Acenaphthene														
5	2,4-Dinitrophenol														
6	4-Nitrophenol														
7	Dibenzofuran														
8	2,4-Dinitrotoluene														
9	2,6-Dinitrotoluene														
10	Diethylphthalate														
11	4-Chlorophenyl-Phenylether														
12	Fluorene														
13	4-Nitroaniline														
14	4,6-Dinitro-2-methylphenol														
15	N-Nitrosodiphenylamine											50000 J			
16	4-Bromophenyl-phenylether														
17	Hexachlorobenzene														
18	Pentachlorophenol										22619	474359 J			
19	Phenanthrene	636	203 J									217949	963 J		
20	Anthracene										5357				
21	Di-n-butyl phthalate				16250 J	155 J	63 J	325 J	5287				3780 J		2785 J
22	Fluoranthene	684	253 J									43590 J			
23	Pyrene	553	215 J									282051			
24	Butyl Benzyl phthalate														
25	3,3'-Dichlorobenzidine														
26	Benzo(a)Anthracene	263 J										121795			
27	bis(2-ethylhexyl) phthalate	934	1266					225 J	1379 BJ		1905 BJ			2439 JB	
28	Chrysene	276 J										282051		1951 J	
29	Di-n-octyl phthalate														
30	Benzo(b)Fluoranthene	289 J	152 J									79487 J			
31	Benzo(k)Fluoranthene														
32	Benzo(a)Pyrene	211 J										66667 J			
33	Indeno(1,2,3-cd)Pyrene														
34	Benzo(g,h,i)Perylene											52564 J			
35	Dibenz(a,h)Anthracene														

Subsurface Soils Pest/PCBs

	SITE	SITE J	SITE J	SITE K	SITE K	SITE K	BLANK	SITE L	SITE L	SITE L	SITE L	SITE L	SITE N	SITE N	BLANK	SITE P
	SAMPLE NUMBER	DC-J2-12	DC-J3-13	DC-K1-08	DC-K2-25	DC-K3-32	DC-LB-01 +	DC-L1-02	DC-L2-03	DC-L3-04	DC-L4-09	DC-L4-10 §	DC-N1-05	DC-N2-06	DC-NB-07 +	DC-P1-53
	SAMPLE DEPTH	15'-25'	0-10'	0-10'	0-10'	10'-20'		5'-10'	5'-15'	5'-15'	10'-20'	10'-20'	0-10'	5'-15'		0-10'
	DATE SAMPLED	12-17-86	12-17-86	12-16-87	1-12-87	1-22-87	12-12-86	12-12-86	12-12-86	12-12-86	12-17-86	12-17-86	12-15-86	12-15-86	12-16-86	2-11-87
1	Alpha-BHC															
2	Beta-BHC															
3	Delta-BHC															
4	Gamma-BHC (Lindane)															
5	Heptachlor															
6	Aldrin															
7	Heptachlor Epoxide															
8	Edosulfan I															
9	Dieldrin															
10	4,4'-DDE															
11	Endrin															
12	Edosulfan II															
13	4,4'-DDD															
14	Endosulfan Sulfate															
15	4,4'-DDT															
16	Methoxychlor															
17	Endrin Ketone															
18	Chlordane															
19	Toxaphene															
20	AROCLOR-1016															
21	AROCLOR-1221															
22	AROCLOR-1232															
23	AROCLOR-1242					19000										
24	AROCLOR-1248			117647 C	4880											
25	AROCLOR-1254															
26	AROCLOR-1260		179		6344											

Subsurface Soils Pest/PCBs

	SITE	SITE P	SITE P	SITE P	SITE O	SITE O	SITE O	SITE O	SITE O	SITE O	BLANK	SITE O	SITE O	SITE O	SITE O	SITE O
	SAMPLE NUMBER	DC-P2-54	DC-P5-55	DC-P5-56 #	DC-01-59	DC-02-60	DC-03-61	DC-04-62	DC-05-63	DC-05-64 #	DC-08-65 #	DC-06-66	DC-09-72	DC-09-73	DC-010-74	DC-010-75
	SAMPLE DEPTH	25'-35'	10'-25	10'-25'	15'-25'	20'-30'	10'-20'	0-10'	8.5'-20'	8.5'-20'		15'-25'	0-10'	15'-20'	5'-10'	10'-15'
	DATE SAMPLED	2-11-87	2-12-87	2-12-87	2-16-87	2-17-87	2-17-87	2-17-87	2-17-87	2-17-87	2-18-87	2-18-87	2-26-87	2-26-87	2-26-87	2-26-87
1	Alpha-BHC															
2	Beta-BHC															
3	Delta-BHC															
4	Gamma-BHC (Lindane)															
5	Heptachlor															
6	Aldrin															
7	Heptachlor Epoxide															
8	Edosulfan I															
9	Dieldrin															
10	4,4'-DDE															
11	Endrin															
12	Edosulfan II															
13	4,4'-DDD															
14	Endosulfan Sulfate															
15	4,4'-DDT															
16	Methoxychlor															
17	Endrin Ketone															
18	Chlordane															
19	Toxaphene															
20	AROCLOR-1016															
21	AROCLOR-1221															
22	AROCLOR-1232								26829 C	30366						
23	AROCLOR-1242							1871795					634146	24691	461539	11364
24	AROCLOR-1248															
25	AROCLOR-1254															
26	AROCLOR-1260								5488 JC	3902 J						

Subsurface Soil Inorganics

	SITE	SITE J	SITE J	SITE K	SITE K	SITE K	BLANK	SITE L	SITE L	SITE L	SITE L	SITE L	SITE N	SITE N	BLANK	SITE P
	SAMPLE NUMBER	DC-J2-12	DC-J3-13	DC-K1-08	DC-K2-25	DC-K3-32	DC-LB-01 *	DC-L1-02	DC-L2-03	DC-L3-04	DC-L4-09	DC-L4-10 *	DC-N1-05	DC-N2-06	DC-NB-07 *	DC-P1-53
	SAMPLE DEPTH	15'-25'	0-10'	0-10'	0-10'	10'-20'		5'-10'	5'-15'	5'-15'	10'-20'	10'-20'	0-10'	5'-15'		0-10'
	DATE SAMPLED	12-17-86	12-17-86	12-16-87	1-12-87	1-22-87	12-12-86	12-12-86	12-12-86	12-12-86	12-17-86	12-17-86	12-15-86	12-15-86	12-16-86	2-11-87
1	Aluminum	5026	7522	4788	9073	10076	9397	10697	5205	7380	1120	1378	4763	1924	9385	5013
2	Antimony								32							
3	Arsenic	2 B	6 B	9 B	8 R	9 R	6 B	5 B		172	55 B	68 B	3 B	2 B	6 B	
4	Barium	106	44	112	202	192	410	197	192	192	114	142	130	46	358	126
5	Beryllium															
6	Boron															
7	Cadmium		4	2	1	4			6						2	4
8	Chromium, trivalent	7	55	351	22	15		16	15	10		3	8	5	13	16
9	Cobalt	4	5	11				6	9	9			4	3	7	
10	Copper	6	83	44	39	129		12	105	141	82	101	10	5	33	50
11	Iron	7320	5489	17765	22439	20000	13846	16053	5564	11899	1500	1446	820	6253	16026	12750
12	Lead	5 B	10 B	107 B	132 R	238 R	43 B	9 B	106	41	5 B	5 B	24	34 B	78 B	
13	Manganese	113	827	499	388	606	345	253	44	149	10	10	164	82	429	201 B
14	Mercury			2.2	0.4	0.2				0.1				9		3.9
15	Nickel	8	72	20	20	21	14	21	408	2392	83	93	11		18	25 B
16	Selenium															
17	Silver															
18	Thallium															
19	Tin					13										
20	Vanadium			16	29	27	22	25	10	19					21	19
21	Zinc	24	70	235	245	503	178	59	144	166	11	10	42	65	182	463 B
22	Cyanide			9												

Subsurface Soil Inorganics

	SITE	SITE P	SITE P	SITE P	SITE O	SITE O	SITE O	SITE O	SITE O	SITE O	BLANK	SITE O	SITE O	SITE O	SITE O	SITE O
	SAMPLE NUMBER	DC-P2-54	DC-P5-55	DC-P5-56	DC-01-59	DC-02-60	DC-03-61	DC-04-62	DC-05-63	DC-05-64	DC-08-65	DC-06-66	DC-09-72	DC-09-73	DC-010-74	DC-010-75
	SAMPLE DEPTH	25'-35'	10'-25	10'-25'	15'-25'	20'-30'	10'-20'	0-10'	8.5'-20'	8.5'-20'		15'-25'	0-10'	15'-20'	5'-10'	10'-15'
	DATE SAMPLED	2-11-87	2-12-87	2-12-87	2-16-87	2-17-87	2-17-87	2-17-87	2-17-87	2-17-87	2-18-87	2-18-87	2-26-87	2-26-87	2-26-87	2-26-87
1	Aluminum	1274	8136	5538	2023	1923	3786	5085	3232	3061	6215	2148	4992	3346	5038	2114
2	Antimony															
3	Arsenic		3 R	4 R			4 R		3 R	3 R	0 R	2 R	6 R	3 R	7 R	3 R
4	Barium		81	119	57		131	214	106	101	411		143	125	158	65
5	Beryllium															
6	Boron															
7	Cadmium							31			2		4		11	
8	Chromium, trivalent	3	14	10	5	6	9	18	7	6	10	5	13	6	22	4
9	Cobalt															
10	Copper		16	24			8	205	7		33		59		341	15
11	Iron	4131	15307	13000	5230	5705	9548	11859	8902	8232	12650	4815	11793	7580	11910	5648
12	Lead	4 B	526 B	90 B	3 B	6 B	7 B	147 B	7 B	9 B	54 B	4 B	18 B	5 B	71 B	6 B
13	Manganese	93 B	623 B	710 B	106 B	108 B	235 B	329 B	207 B	187 B	357 B	79 B	190 B	152 B	206 B	101 B
14	Mercury	0.6						6.3					1.7	0.3	1.9	
15	Nickel		15 B	23 B				45 B	11 B	10 B	15 B		38		136 B	11 B
16	Selenium															
17	Silver															
18	Thallium															
19	Tin															
20	Vanadium		22	16			13	18			15		19		15	
21	Zinc	17 B	49 B	74 B	18 B	18 B	54 B	1398	37 B	35 B	181 B	17 B	277	30 B	688 B	43 B
22	Cyanide	13	15													

Reference Number 3

Plotted on Cahokia Quad.

437

LOG OF WATER WELL

Property owner Midwest Rubber Reclaiming Co. East St. Louis Well No. #4

Drilled by ______ Year May 1951

Formations passed through	Thickness	Depth of Bottom
Clay	7	7
Dry yellow sand	21	28
Building sand	17	45
Fine gray sand	9	54
Med. Coarse sand	6	60
Ext. fine very dirty sand + silt	18	78
Coarse sand + boulders	32	110

[Continue on back if necessary]

COUNTY No. 1940

Finished in ______ at ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. 36'10" ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot ______ Diam. ______ Length ______ Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 26

Description of location ______ Twp. 2N

Rge. 10'W

Location by Groundwater ...

Signed ______ County St. Clair

ST. CLAIR

Copy for Illinois State Geological Survey

NO ENVELOPE Index: 26-2N-10W

QUESTED AND MAIL ORIGINAL TO STATE
AER HEALTH PROTECTION, 535 WEST
. DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-12-76

10. Property owner Clayton Chemical Co. Well No. ______
 Address 101 S. Brentwood Clayton Mo.
 Driller L. Clarkes Drilling Co. License No. 102-50
11. Permit No. 45480 Date 3-22-76
12. Water from Sand & Gravel (Formation) 13. County St. Clair
 at depth 40 to 78 ft.
 Sec. 26
 Twp. 2N
 Rge. 10W
 Elev. ______
14. Screen: Diam. ______ in.
 Length: 10 ft. Slotted ✓
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	PVC	0	78

SHOW LOCATION IN SECTION PLAT

562'SL, 587'WL SW (permit)

16. Size Hole below casing: 10 in.
17. Static level 15 ft. below casing top which is 1 ft. above ground level. Pumping level ______ ft. when pumping at 200+ gpm for ______ hours. Sub. pump set at 60'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	40	40
Sand & Gravel	38	78

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert ... DATE 5-4-76

ST. CLAIR COUNTY No. 24077 26-2N-10W

89

Plotted on Cahokia Quad.

435

LOG OF WATER WELL

Property owner Midwest Rubber Reclaiming Co. Well No. 2

Drilled by Thorpe (Morgan) Year ?

Formations passed through	Thickness	Depth of Bottom
Sandy soil	27	27
River silt	8	35
Coarse sand + pea gravel	8	43
Gt. fine sand + silt	21	64
Very coarse sand	6	70
Coarse sand, wood, veg., gravel, etc.	11	81
Very coarse sand	5	86
Very coarse sand + gravel	28	114

[Continue on back if necessary]

COUNTY No. 1938

Finished in ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. 25'6" ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot ______ Diam. ______ Length ______ Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 26

Description of location ______ Twp. 2N

Rge. 10W

Location by Groundwater Sec. No. 6

Signed ______ County St Clair

St.CLAIR

Copy for Illinois State Geological Survey Index: NO ENVELOPE 26-2N-10W

---

see Log #435

436

LOG OF WATER WELL

see Mr. Luther

Property owner Midwest Rubber Reclaiming Co. Well No. 3

Drilled by Thorpe (Morgan) Year Mar. 1951

Formations passed through	Thickness	Depth of Bottom
Hard fill	3	3
Fine very sand + silt	34	37
Med. fine sand very dirty	14	51
Med. coarse sand, dirty	11	62
Building sand some fine gravel	9	71
Clean coarse sand	23	94
Coarse sand + boulders	8	102
Med. coarse sand	10	112

[Continue on back if necessary]

COUNTY No. 1939

Finished in ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. 35' Apr. 18 ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot ______ Diam. ______ Length ______ Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 26

Description of location ______ Twp. 2N

Rge. 10W

Location by Groundwater Sec. 6

Signed ______ County St Clair

St.CLAIR

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Plotted on plate 372

LOG OF WATER WELL

M.C. #

Property owner Monsanto Chemical Co. Well No. 20
East of bldg. BI in plant 15' E. from R.R. spur. L.W. # 3
Drilled by Layne-Western (Millikan) Year 7-13-49

Formations passed through	Thickness	Depth of Bottom
Clay	1	1
Cinders	1	2
Clay	2	5
Sandy clay	26	31
Black fine sand	30	61
Med. sand, gray	13	74
Med. to coarse sand	5	79
Rock + coarse sand	2	81
Coarse sand	3	84
Coarse sand + gravel + small rocks	19	103

[Continue on back if necessary]

COUNTY No. 1949

Finished in ______ at ______ to ______ ft.
Cased with ______ inch ______ from 0 to ______ ft.
and ______ inch ______ from ______ to ______ ft.
Size hole below casing ______ inch. Static level from surf. ______ ft.
Tested capacity ______ gal. per min. Temperature ______ °F.
Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.
Length of test ______ hrs. ______ min. Screen Shutter
Slot ______ Diam. ______ Length 25 Bottom set at ______ ft.
[Show location in Section Plat]
Township name ______ Elev. ______ Sec. 26
Description of location SW NE Sec. 26 Twp. 2 N
T 2 N, R 10 W Rge. 10 W
Signed ______ County St. Clair

St. Clair
Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

Plotted on plate 1F89 ... 434

See log # 437

LOG OF WATER WELL

Property owner Midwest Rubber Reclaiming Co. Well No. 1
Drilled by Morgan (Morgan) Year ?

Formations passed through	Thickness	Depth of Bottom
Sandy loam	10	10
Dry sand	14	24
Coarse sand	14	38
Coarse sand, some gravel	4	42
Fine sand	24	66
Ex. fine sand	8	74
Coarse sand + boulders	8	82
Very coarse sand + gravel	24	106

[Continue on back if necessary]

COUNTY No. 4937

Finished in ______ to ______ ft.
Cased with ______ inch ______ from 0 to ______ ft.
and ______ inch ______ from ______ to ______ ft.
Size hole below casing ______ inch. Static level from surf. 28' 2" ft.
Tested capacity ______ gal. per min. Temperature ______ °F.
Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.
Length of test ______ hrs. ______ min. Screen ______
Slot ______ Diam. ______ Length ______ Bottom set at ______ ft.
[Show location in Section Plat]
Township name ______ Elev. ______ Sec. 26
Description of location ______ Twp. 2 N
Rge. 10 W
Testing in Groundwater Div.
Signed ______ County St. Clair Co

St. Clair
Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

283

LOG OF WATER WELL

#17

Property owner Monsanto Chem. Co. Well No. 3

Drilled by H.C. Watson (Wally) Year July 1941

Formations passed through	Thickness	Depth of Bottom
Fill	10	10
Mud	8	18
Yellow sand	10	28
Gray sand (getting coarser)	35	63
#30 sand	15	78
#40 gravel	5	83
#50 "	5	88
#60 "	17	105 TD

[Continue on back if necessary]

COUNTY No. 1947

Finished in ... to ... ft.

Cased with ... inch ... from 0 to ... ft.

and ... inch ... from ... to ... ft.

Size hole below casing ... inch. Static level from surf. 30 ft.

Tested capacity ... gal. per min. Temperature ... °F.

Water lowered to ... ft. ... in. in ... hrs. ... min.

Length of test ... hrs. ... min. Screen Johnson

Slot 40 Diam. 16 Length 30' Bottom set at ... ft.

[Show location in Section Plat]

Township name ... Elev. ...

Description of location SW, NE Sec. 26, T 2 N, R 10 W

Sec. 26 Twp. 2 N Rge. 10 W

Location by Groundwater Div. St. Clair

Signed ... County St. Clair

St. CLAIR No ENV 1/4 NE 26-2N-10W

Copy for Illinois State Geological Survey Index:

Platted on sheet to

373

377

LOG OF WATER WELL

Property owner Monsanto Chem. Co. Well No. 19
(80'5"E of main entrance gate) W.W. # 2

Drilled by Layne-Western (F. Sallee) Year Aug. 1948

Formations passed through	Thickness	Depth of Bottom
Cinder + Clay fill	2	2
Brown sand	14	16
Brown + blue clay	2	18
Brown dirty gravel	27	45
Med. gray sand	5	50
Med. like clammy gray sand	5	55
Med. coarse sand + gravel, mixed with wood	6	61
Coarse sand + gravel	5	66
Black med sand, some gravel	7	73
Coarse sand + gravel	2	75
Coarse brown sand	5	80
Med. brownish gray sand + boulders	4	84
Coarse gray sand	6	90
" " " + gravel	18	108

[Continue on back if necessary]

COUNTY No. 1948

Finished in ... to ... ft.

Cased with ... inch ... from 0 to ... ft.

and ... inch ... from ... to ... ft.

Size hole below casing ... inch. Static level from surf. ... ft.

Tested capacity ... gal. per min. Temperature ... °F.

Water lowered to ... ft. ... in. in ... hrs. ... min.

Length of test ... hrs. ... min. Screen Shutter

Slot ... Diam. ... Length 25 Bottom set at ... ft.

[Show location in Section Plat]

Township name ... Elev. ...

Description of location NE NE Sec. 26, T 2 N, R 10 W

Sec. 26 Twp. 2 N Rge. 10 W

Signed ... County St. Clair

St. CLAIR No ENKELO NE 26-2(10W

Copy for Illinois State Geological Survey Index:

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LOG OF WATER WELL

Property owner Monsanto Chem. Co. Well No. 15

Drilled by H. L. Watson (Moretti) Year Feb. 1941 Mar. 1941

Formations passed through	Thickness	Depth of Bottom
Yo log	70	
Fine sand	5	75
Fine sand + gravel	5	80
Coarse sand + gravel	5	85
" " "	5	90
Coarse sand	5	95
Coarse sand + gravel	5	100
" " "	5	105
Sand + gravel	1½	106½

T.D.

[Continue on back if necessary]

Finished in ____ at ____ to ____ ft.

COUNTY No. 1945

Cased with ____ inch ____ from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf. 34' ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen Johnson

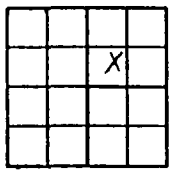
Slot 60-80-100 Diam. 16" Length 25' Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. ____

Description of location SW, NE Sec. 26, T 2 N, R 10 W

Sec. 26 Twp. 2 N Rge. 10 W



Location by Illinois Water Div.

Signed ____ County St. Clair

ST. CLAIR NO ENVELOPE 26-2N-10W

Copy for Illinois State Geological Survey Index:

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LOG OF WATER WELL

#16

Property owner Monsanto Chem. Co. Well No. 16

Drilled by Watson (Walz) Year June 1941

Formations passed through	Thickness	Depth of Bottom
Fill	10	10
Mud	8	18
Fine yellow sand → ?		
Sand	20'	38
Gravel	38	76
Fine gravel	5	81
Gray gravel	10	91
Gravel	10	101
Gravel	5	106

[Continue on back if necessary] TD = 106'

Finished in ____ at ____ to ____ ft.

COUNTY No. 1946

Cased with ____ inch ____ from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf. 30 ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen Johnson

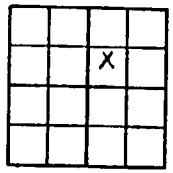
Slot ____ Diam. 16" Length 30' Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. ____

Description of location SW, NE Sec. 26, T 2 N, R 10 W

Sec. 26 Twp. 2 N Rge. 10 W



Location by Illinois Water Div.

Signed ____ County St. Clair

ST. CLAIR NO ENVELOPE 26-2N-10W

Copy for Illinois State Geological Survey Index:

(22844—50M—9-55) 2

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Redish sandy and blue silt		0	15
Grey sand little silt		15	20
Grey sand		20	25
Blue and grey sand		25	30
Fine grey sand		30	35
Fine grey sand and blue silt		35	40
Fine blue and grey sand		40	45
No recovery wash samole. Fine blue and grey sand		40	50
No recovery wash sample. fine blue and grey sand.		50	55
Fine blue sand, No recovery		55	60
Blue sand and wood no recovery		60	65
Grey and blue sand. No recovery		65	70
Fine blue sand. No recovery		70	75
Fine blue sand. No recovery		75	80
Medium blue sand. No recovery		80	85
Mixed grey and blue sand no recovery		85	90
Mixed grey and blue sand. No recovery		90	95
Mixed blue and grey sand. Could not drive sample Barrell. Felt like gravel		95	100
Blue and grey sand. No spoon sample taken.		100	105
Blue and redish sand. no spoon sample taken. Drove casing to 110'4". Set well screen at 108'11". Could not get any deeper as sand was running under casing.		105	110
Total Depth			110'4" TD

Location plat filed.
S.S.# 29900

COMPANY Wabash Drilling Co.
FARM Monsanto Chemical Co. NO. SR-2
DATE DRILLED November 1956 COUNTY NO. 1987
AUTHORITY Wabash Drilling Co.
ELEVATION 412.5' refusal (MSL)
LOCATION 680'W of 90° 10'W longitude, 4310'N of 35° north latitude.
COUNTY ST. CLAIR

Projected 26- 2N-10W

SC Jack Bufe (or Kelly) Photo IF-88 279

Plotted on photo

LOG OF WATER WELL

Property owner Monsanto Chem. Co. (Plant 8") Well No. 12

Drilled by H. C. Walters Year

Formations passed through	Thickness	Depth of Bottom
No log	70	
Fine sand	5	75
Coarse sand + gravel	5	80
Coarse sand + gravel	5	85
" " " "	5	90
" " " "	5	95
" " " "	5	100
Sand + gravel	5	105
" " "	5	110
Few Boulders	2	112

[Continue on back if necessary]

COUNTY No. 1944

Finished in at to ft.

Cased with inch from 0 to ft.

and inch from to ft.

Size hole below casing inch. Static level from surf. 39'6" ft.

Tested capacity 1250 gal. per min. Temperature °F.

Water lowered to ft. in. in hrs. min.

Length of test hrs. min. Screen Johnson

Slot 60-80-100 Diam. 16 Length 27½' Bottom set at ft.

[Show location in Section Plat]

Township name Elev. Sec. 26

Description of location SE, NE Sec. 26, T 2 N, R 10 W Twp. 2N Rge. 10W

Location by Ground Survey

Signed County St. Clair

ST. CLAIR No ENVELOPE 26-2 10W

Copy for Illinois State Geological Survey Index:

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LOG OF WATER WELL

Property owner Monsanto Chem. Co. Well No. 2 (Test well)

Drilled by Layne-Western (E. Sallee) Year Feb. 1948

Formations passed through	Thickness	Depth of Bottom
Cinder fill	8	8
Sandy green clay	4	12
Clay & black sand turning brown	3	15
Black & brown sand w/ clay	5	20
Brown sand	10	30
" " turning gray	5	35
Fine to med. gray sand	5	40
Med. gray sand	10	50
Med. to coarse gray sand	15	65
Med. gray sand	5	70
Sand & boulders, blue clay showing	5	75
Fine to med. sand, silt, few boulders	5	80
Med. sand, some gravel	5	85
Med. to coarse sand & gravel	15	100
Coarse sand, gravel & boulders	8	108
On rock at 108		

[Continue on back if necessary]

Finished in ____ at ____ to ____ ft.

Cased with ____ inch COUNTY No. 1942 from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf. ____ ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen ____

Slot ____ Diam. ____ Length ____ Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. 410 TOPO

Description of location NE NE Sec. 26 T 2N, R 10W

Sec. 26 Twp. 2N Rge. 10W

Signed ____ County St. Clair

St. CLAIR Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

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LOG OF WATER WELL

(Same as well #1)

Property owner Monsanto Chem. Co. Well No. #4 Test Hole

Drilled by Layne-Western (E. Sallee) Year Feb. 1948

Formations passed through	Thickness	Depth of Bottom
Cinders	1	1
Brown to yellow clay	9	10
Brown sandy clay	20	30
Brown sand clay showing	10	40
Brown packed sand	3	43
Med. sand, some gravel, clay showing	7	50
Fine packed sand & gravel	10	65
Med. sand, some coarse gravel - water at 68-70	5	70
Med. sand, some gravel	5	75
Fine to coarse sand & gravel, few bldrs	10	85
Medium fine sand, some gravel	5	90
Medium to coarse sand & gravel (bulk)	19'8"	109'8"
on rock at 109'8"		

[Continue on back if necessary]

Finished in ____ at ____ to ____ ft.

Cased with ____ inch COUNTY No. 1943 from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf. ____ ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen ____

Slot ____ Diam. ____ Length ____ Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. ____

Description of location NE, NE Sec. 26 T 2N R 10W

Sec. 26 Twp. 2N Rge. 10W

Signed ____ County St. Clair

St. CLAIR Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

(2840—50M—12-64)

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
Soil	1'6"		1'6"
Sand	34		35'6"
Fine gravel	6		41'6"
Gravel & sand	24		65'6"
Gravel & boulders	13		84'6"
Gravel	5'6"		90
Coarse gravel & boulders	18		108

Tested 1400 gallons per minute.

Water stands 12'6" from surface of ground.

Water stands 26'6" when pumping 1400 gallons per minute.

Size of well 24".

20 cubic yards of gravel.

Material used in well:
50' of 38" Pit,
106'8" of 24" which includes 58' of 24" Shutter Screen & 48'4" of 24" Pit.

Kind of seal used Steel Plug.

*50'N and 50'E of crossing of Alton & Southern R.R. & Falling Springs Rd.

COMPANY	Layne & Bowler Company		
FARM	Monsanto Chemical Works	NO.	1
DATE DRILLED	May 8, 1920	COUNTY NO.	1741
AUTHORITY	Layne & Bowler Co.		
ELEVATION	410' ±		
LOCATION	*		
COUNTY	ST. CLAIR		

Projected 26-2N-10W

374

LOG OF WATER WELL

Test well

Property owner Monsanto Chem. Co. Well No. #1

Drilled by Layne-Western (F. Salle) Year Feb. 1948

Formations passed through	Thickness	Depth of Bottom
Soil Fill	1	1
Cinder fill	4	5
Cinders, blue, green clay	5	10
Cinders + fine black sand	5	15
Fine black sand + clay	5	20
" " " , streak med. gray sand	5	25
Fine black mucky sand. [illegible]	20	45
Med. Coarse gray sand	10	55
Coarse gray sand	5	60
Fine, pebbly gray-brown sand, boulder [illegible]	14	74
Sand + gravel, packed w/ much fine sand	3	77
Packed sand, gravel + boulders	3	80
Packed sand, gravel + boulders	13	93
Sand + boulders	9	102 TD
(Formation in general is very tight)		

[Continue on back if necessary]

Finished in ______ at ______ to ______ ft.

COUNTY No. 1741

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. ______ ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot ______ Diam. ______ Length ______ Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. 410 TOPO

Description of location SW NE Sec. 26, T2N, R10W

Sec. 26

Twp. 2N

Rge. 10W

[illegible] Dec. 6

Signed ______ County St. Clair

ST. CLAIR — NO ENVELOPE

Copy for Illinois State Geological Survey

Index: 26-2N-10W

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LOG OF WATER WELL

Property owner Lewin - Mathes Well No.

Drilled by H. C. Watson (Well) Year June 1948

Formations passed through	Thickness	Depth of Bottom
Topsoil	3	3
Fine sand	12	15
" "	20	35
" " + gravel	10	45
Med sand + gravel	2	47
Clay	1	48
Med. Sand + Gravel	4	52
" " " " + rock	10	62
" " " "	8	70
" " " "	5	75
" " " " + rock	5	80
Fine sand	5	85
Coarse sand + rock	5	90
Coarse sand	5	95
Boulder	1	96
Coarse sand + rock	5	101

[Continue on back if necessary]

COUNTY No. 1935

Finished in ____ to ____ ft.

Cased with ____ inch ____ from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf ____ ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen ____

Slot ____ Diam. ____ Length ____ Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. ____ Sec. 26

Description of location NE, SW Sec. 26, T 2 N, R 10 W

Twp. ____

Rge. ____

Location by Drainage & Water Supply

Signed ____ County St. Clair

Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

On Cahokia Quad.

286

LOG OF WATER WELL

Property owner Lewin - Mathes - Monsanto, Etc. Well No.

Drilled by H. C. Watson (Graves) Year Feb. 1947

Formations passed through	Thickness	Depth of Bottom
Fine Sand	70	70
Fine sand + gravel	8	78
Good formations	26	104 TD

COUNTY No. 1936

[Continue on back if necessary]

Finished in ____ at ____ to ____ ft.

Cased with ____ inch ____ from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf ____ ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen ____

Slot 30 Diam. 12" Length 26'5" Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. ____ Sec. 26

Description of location NE, SW Sec. 26, T 2 N, R 10 W

Twp. 2 N

Rge. 10 W

Location by Drainage & Water Supply

Signed ____ County St. Clair

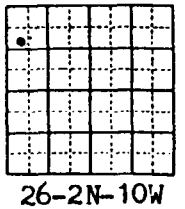
Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

(36941—50M—2-67)27-o 2

ILLINOIS GEOLOGICAL SURVEY, URBANA

PERMIT # NF 08825	Thickness	Top	Bottom
A 4" test hole was first drilled to a depth of 111', then filled in with sand and later re-drilled with a bigger bit. Both records follow.			
TEST HOLE			
Clay		0	11
Silty sand brown		12	21
Fine sand brown		22	30
Fine sand gray		31	41
Medium sand gray		42	51
Coarse sand gray with pea gravel		52	56
Coarse sand gray with pea gravel		57	61
Coarse sand gray with pea gravel		62	86
Very coarse sand gray with 3/8" gravel		87	91
Very coarse sand gray with ½" gravel		92	96
Very coarse sand gray with ½" gravel		97	101
Very coarse sand gray with ½" gravel		102	104
Very coarse sand gray with ½" gravel		105	111
			TD
WELL RECORD			
Clay		0	18
Sand coarse gray			20
Sand coarse gray with gravel			25
Sand fine			30
Sand coarse gray with gravel			35
Sand coarse gray with gravel			40
Sand coarse gray with 1" gravel			45
Sand coarse gray with 1" gravel		55	60
Sand coarse gray with 3/4" gravel		65	70

OMPANY Luhr Brothers, Inc.
ARM Cerro Copper & Brass Co. NO. 1
ATE DRILLED July 10, 1970 COUNTY NO. 3208
UTHORITY Company
LEVATION
OCATION 1000' N line, 400' W line of NW
OUNTY ST. C IR



26-2N-10W

(2840—30M—12-64) 2

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
Sand very coarse gray			75
Sand very coarse gray with cobbles to 5"		80	110½ TD
Well Casing:			
Material - Steel coated with bituminous			
Diameter: 20" outside diameter			
Length - 78.73'			
Wall Thickness - .075			
Final Casing Elevation Above Grade: 1'			
Size of Drilled Hole:			
40" to 20'			
38" to bottom			
Well Screen:			
Material - Stainless steel #304			
Diameter - 20" nominal			
Length - 31.82			
Slot Size - .100			
Type Make - UOP Johnson			
Depth of Screen set at 110.55'			
Gravel Filter:			
Used 23 tons Muscatine, 1/16" - 3/16" No. 3			
Wall Thickness - 8½"			
Feet Above Screen - 26'			
Static Level: 23.86'			
S.S. # 57106.			

(ITY Luhr Bros., Inc. Cerro Copper & Brass C(#1
ST. CLAIR
26-2N-10W

TOWN E. St. Louis-Township Monsanto P. O. Map No. 4W
COMPANY F. Thorpe- Engineer R. 10W
FARM Evans-Wallower Zinc Co. No. 2 T. 2N Sec. 24 ?
AUTHORITY F. Thorpe
ELEVATION
COLLECTOR DATE DRILLED March 1929
CONFIDENTIAL

No.	STRATA COUNTY NO. 1740	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Subsoil & clay	16		16	
	Sand, extremely fine	11		27	
	Sand, very fine, loamy	8		35	
	Sand, very fine	11		46	
	Sand, fine	6		52	
	Sand, very fine	3		55	
	Sand, fine, gritty	7		62	
	Boulders up to 4" with some sand	5		67	
	Regular building sand	14		81	
	Sand, medium coarse	2		83	
	Sand, very coarse	19		102	

"During the month of March, 1929, I installed a porous concrete well 30" I.D. and 40" O.D. at the plant of the Evans-Wallower Zinc Co. at Monsanto P.O., East St. Louis, Ill. and the above is the log of all the strata we went through in Well #2.

"The static level of water varies with the river level."
(Letter of F. Thorpe rec'd. 4-3-29)

NO ENVELOPE

24

County St. Clair Index No. 04W24
T.—DRILL RECORD 24-2N-10W
17893 4M 5 29 26

TOWN East St. Louis Township Map No. 4W
COMPANY Thorpe Concrete Well Co. R. 10W
FARM Certain-teed Products No. 3 T. 2N Sec. 24
AUTHORITY written log
ELEVATION 416 topo.
COLLECTOR Ireland DATE DRILLED 4-34
CONFIDENTIAL 18th and Broadway

No.	STRATA COUNTY NO. 1739	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Cinder fill	6		6	
	Gumbo	4		10	
	Soil, sandy	7		17	
	Sand, fine	10		27	
	Sand, extremely fine	13		40	
	Sand, fine, loamy	13		53	
	Sand, fine, gritty	7		60	
	Clay, blue	4		64	
	Sand, quick	26		90	
	Sand, fine	2		92	
	Sand, gritty	9		101	
	Gravel, fine	6		107	
	Sand, coarse	2		109	
	Boulders 2" to 10"	7		116	
	Baits drilled 3 wells	1-21		120	
		7-17		120	
		11-17		119	

NO ENVELOPE

County ST. CLAIR Index No. 04W 24
T.—DRILL RECORD 24-2N-10W
47527—10M—4-35 4 Illinois Geological Survey, Urbana.

(575—5M—7-23)

TOWN
TOWNSHIP
MAP No. 4W

COMPANY Union Electric Light and Power
10W

FARM 300 ft. S. of North property Line
AUTHORITY 50 ft. E. of Eastern Inner
ELEVATION Harbor Line
HOLE No. 6
COLLECTOR
DATE DRILLED

2 N Proj. 23

COUNTY NO. 1733 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
Water	16		16	
Sand, fine	12		28	
Sand, coarse	10		38	
Sand, very coarse 1/2 in. gravel	10		48	
Sand, coarse	27		75	
Sand, coarse 5% 1/2 in. gravel	4		79	
Sand, coarse 25% 1/2 in. gravel	4		89	
Sand, coarse 40% 3 in. gravel	3		92	
Sand with gravel	12	8	104	8
Minus 76.06 rock				

St. Clair
County
DRILL RECORD
Index No.
Projected 23-2N-10W

(575—5M—7-23)

TOWN Cahokia
TOWNSHIP
MAP No. 4W

COMPANY Union Electric Light & Power
10W

FARM 100 ft. S. of N. property Line on
AUTHORITY Eastern Inner Harbor Line.
ELEVATION
HOLE No. 7
COLLECTOR
DATE DRILLED

2 N Proj. 23

COUNTY NO. 1733 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
Water	35		35	
Sand, fine	5		40	
Sand, coarse 5% 2 in. gravel	10		50	
Sand, coarse 15% 1/8 in. gravel	15		65	
Sand, coarse 20% 1 1/2 and 10% 1/8 in. gravel	12		77	

St. Clair
County
DRILL RECORD
Index No.
Projected 23-2N-10W

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1908. 306742

(575—5M—7-23)

WN Cahokia TOWNSHIP MAP No. 4W

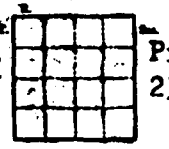
MPANY Union Electric Light & Power 10W

RM 100 ft. S. of N. property line

THORITY 258 ft. E. of Eastern Inner Harbor line. HOLE No. 1

EVATION

LLECTOR DATE DRILLED



COUNTY NO. 1730 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
Mud, black and fine sand	30		30	
Sand, fine	4		34	
Sand, coarse 5% 1/8 in. gravel	2		36	
25% 1/4 in. gravel	2		38	
30% 2½ in. gravel	2		40	
Sand, coarse 30% 1/8 to 1 in. gravel	8		48	
Sand, coarse 10% 1/4 in. gravel	4		52	

County St. Clair Index No. 04-W

DRILL RECORD ILLINOIS STATE Projected 23-2N-10W

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1908. 302136

(575—5M—7-23)

TOWN Cahokia TOWNSHIP MAP No. 4W

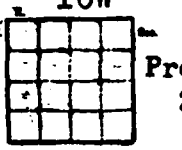
COMPANY Union Electric Light and Power 10W

FARM 300 ft. S. of N. Property Line

AUTHORITY 250 ft. E. of Eastern Inner

ELEVATION Harbor line HOLE No. 2

COLLECTOR DATE DRILLED



No. COUNTY NO. 1731 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
Sand, fine	10		10	
Sand, very fine	8		18	
Mud, black	6		24	
Mud, black and fine sand mixed	11		33	
Sand, fine. 10% 1/4 in. gravel	5		38	
Sand, coarse. 15% 1/2 in. gravel	5		43	
Sand, coarse 20% 1/2 in. gravel	5		48	
Sand, fine	5		53	
Sand, coarse. Pieces of soapstone	5		58	
Sand, coarse 5% 1/4 in. gravel	8		66	
Sand, coarse 10% 1/2 in. gravel	6		72	
Sand, coarse 20% 4 in. gravel	4		76	
Sand, coarse, 20% 3/4 in. gravel	15		91	
Sand, coarse	10		101	
Minus 73.66 Rock				

County St. Clair Index No.

DRILL RECORD ILLINOIS STATE Projected 23-2N-10W

Photo IF-36 321

Mr. Fing

LOG OF WATER WELL

Property owner American Zinc Co. Monsanto, Ill. Well No. 8

Drilled by H. L. Watson Year Feb. 1946

Formations passed through	Thickness	Depth of Bottom
Gumbo	20	20'
Quick sand	30	50'
Sand	16	66'
Med. Sand	10	76
No log	26	102
TD = 102		

[Continue on back if necessary]

Finished in ______ at ______ to ______ ft.

COUNTY No. 1927

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. ______ ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen Cook

Slot ______ Diam. 16 Length 30' Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 23

Description of location SE SE Sec. 23 Twp. 2N

T2N, R10W Rge. 10W

Location by Ground Water Div.

Signed ______ County St. Clair

St. CLAIR 23-2N-10W

Copy for Illinois S[...] Geological Survey NO ENVELOPE Index:

323

LOG OF WATER WELL

Property owner American Zinc Co. Monsanto, Ill. Well No. 9

Drilled by H. L. Watson (G. W. Fink) Year Nov. 1950

Formations passed through	Thickness	Depth of Bottom
Mud	35	35
Sand	45	80
Medium sand	20	100
Sand + coarse gravel	4	104
TD = 104'		

[Continue on back if necessary]

Finished in ______ at ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

COUNTY No. 1928

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. ______ ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot ______ Diam. 40" Length 60' Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 23

Description of location SW SE Sec. 23 Twp. 2N

T2N R10W 6-27 Rge. 10W

Location by Ground Water Div.

Signed ______ County St. Clair

St. CLAIR 23-2N-10W

Copy for Illinois State Geological Survey NO ENVELOPE Index:

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

INDUSTRIAL Permit #NF4849	Thickness	Top	Bottom
Yellow brown clay		0	10
Fine sand brown		10	25
Medium coarse sand brown		25	30
Coarse sand brown with pea gravel		30	35
Coarse sand brown		35	40
Medium coarse sand brown		40	55
Medium fine sand brown		55	60
Fine sand brown		60	70
Very coarse sand gray with 1½" gravel		70	80
Very coarse sand gray with ¼" gravel		80	85
Very coarse sand gray with 3/4" gravel		85	90
Very coarse sand gray with ½" gravel		90	95
Very coarse sand gray with 3/8" gravel		95	100
Very coarse sand gray with 1" gravel		100	105
Very coarse sand gray with 3/4" gravel		105	107
Very coarse sand gray with ¼" gravel		107	113
Very coarse sand gray with ½" gravel		113	116
			TD

Size of hole 38"
Casing: 88" - 18" outside diameter steel
Casing elevation 2' above grade
Static water level 36.9' top of casing
24 tons gravel pack 11" wall 45' above screen
Screen: Johnson Stainless Steel 18" nominal diameter. Length 30' set at 116'
Slot size: .060'
Two well 300' apart were drilled under Permit #NF4849 S.S. # 55984
NO ENVELOPE

* North Reservoir

COMPANY Luhr Brothers, Inc.
FARM Midwest Rubber Reclaiming Co. 10
DATE DRILLED September 3, 1968 COUNTY NO. 2856
AUTHORITY Luhr Bros. Inc.
ELEVATION
LOCATION Lot 209 Third Subdivision of Cahokia Commonfields
COUNTY ST. CLAIR 23?-2N-10 W

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

INDUSTRIAL Permit #NF4849	Thickness	Top	Bottom
Brown Clay		0	5
Brown silty sand		5	20
Fine sand brown		20	25
Fine sand gray		25	30
Coarse sand gray with pea gravel		30	35
Medium coarse sand gray		35	40
Coarse sand gray		40	45
Medium fine sand gray		45	55
Very coarse sand gray with pea gravel		55	60
Medium coarse sand gray		60	65
Very coarse sand gray with 3/4" gravel		65	70
Medium coarse sand gray with pea gravel		70	75
Very coarse sand gray with 3/4" gravel		75	110
Very coarse sand gray with 1" gravel		110	115.5
			TD

Size of hole 38"
Casing: 88.70' - 18" outside diameter steel
Casing elevation 3.2' above grade
Static water level 37'
26.5 tons gravel pack 11" wall 55' above screen.
Screen: Johnson Stainless Steel 16" nominal diameter. Length 30' set at 115.5'
Slot size: .060
Two wells 300' apart were drilled under Permit #NF4849
NO ENVELOPE

+ Southwest Reservoir S.S.#55983

COMPANY Luhr Brothers, Incorparted.
FARM Midwest Rubber Reclaiming Co. 11
DATE DRILLED September 6, 1968 COUNTY NO. 2857
AUTHORITY Luhr Bros. Inc.
ELEVATION
LOCATION Lot 209 Third Subdivision of Cahokia Commonfields
COUNTY ST. CLAIR 23?-2N-10W

Platteville? Hk. 1F37 322

LOG OF WATER WELL

Property owner: American Zinc Co - Monsanto / United Engineers + Const. Inc. E. St. Louis — Well No. 6

Drilled by: H. L. Watson ([illegible]) — Year: Nov. 1940

Formations passed through	Thickness	Depth of Bottom
Cinder + Mud	15	15
Fine sand	60	75
good water bearing formation	30	105
Quicksand to soapstone	2	107

Abandoned

[Continue on back if necessary]

Finished in ______ at ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

COUNTY No. 1926

Size hole below casing ______ inch. Static level from surf. 34 ft.

Tested capacity 1500 gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen Cook

Slot 120 Diam. 16 Length 30' Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 23

Description of location [illegible] E, [illegible] E Sec 23 T 2N, R 10W [illegible] — Twp. 2N

Rge. 10W

Location by [illegible]

Signed ______ County St. Clair

St. CLAIR

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261

LOG OF WATER WELL

Property owner: United Engineers / American Zinc Co. Monsanto, Ill. — Well No. 7

Drilled by: Watson (Moretti + [illegible]) — Year: Jan. 1942

Formations passed through	Thickness	Depth of Bottom
Dirt	5	
Fine sand	45	50
Coarse sand	25	75
gravel	30	105

COUNTY No. 1929

[Continue on back if necessary]

Finished in ______ at ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. 33' 6" ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot 40+50 Diam. 16" Length 30' Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. 404 TOPO — Sec. 23

Description of location SE, SE Sec. 23, T 2N, R 10W — Twp. 2N

600' N 90% 7000' N 38°35' [illegible] — Rge. 10W

Location by [illegible]

Signed ______ County St. Clair

St. CLAIR

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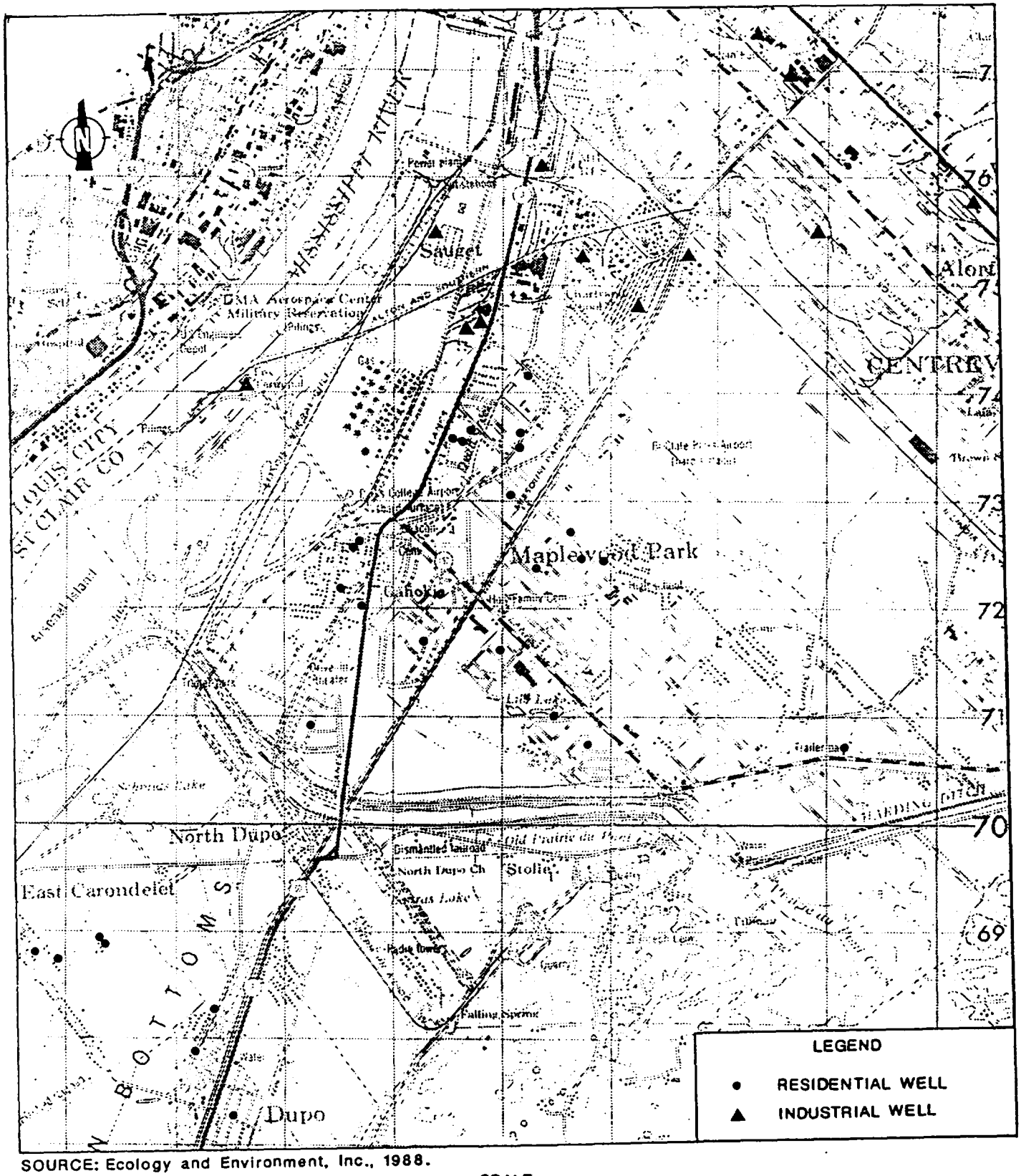
Reference Number 4



SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 1 2 3 4 MILES

RESIDENTIAL AND INDUSTRIAL WELL LOCATIONS IN THE DCP AREA

The following is an explanation of the ISWS Private Well Database Printout.

Columns	Field Length	Name	Description
1-3	3	FIPS	County Code Number

FIPS means Federal Information Processing System and is a Federal number to designate a county.

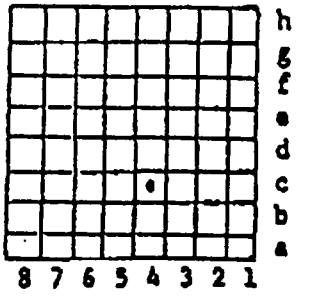
4-8	5	SGS County number	

SGS County number is the Geological Survey ID# that is assigned as an internal identification number.

9-18	10	Location	Township columns 9-11 Range columns 12-14 Section columns 15-16 Plot columns 12-18

The location system uses the township, range, and section. The location consists of five parts: county, township, range, section, and coordinate within the section. Sections are divided into rows of 1/8-mile squares. Each 1/8-mile square contains 10 acres and corresponds to a quarter of a quarter of a quarter section. A normal section of 1 square mile contains 8 rows of 1/8-mile squares; an odd-sized section contains more or fewer rows. Rows are numbered from east to west and lettered from south to north as shown in the diagram.

St. Clair County
T.2N., R.10W.
Sec. 23



The location of the well shown above is STC 2N10W-23.4c. Where there is more than one well in a 10-acre square they are identified by arabic numbers after the lower-case letter in the well number.

Columns	Field Length	Name	Description
93-94	2	Well type -	A two letter code indicating the type of well Blank - Assumed drilled BD Bored and dug DU Dug (being phased out) DR Driven SP Sand point SG Spring
95-96	2	Aquifer type -	A two letter code indicating aquifer type Blank - Undeterminable BR Bedrock UN Unconsolidated

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, from chemical analysis reports, from well sealing forms or well inventory forms from the 1930-34 well survey and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been field verified.

Columns	Field Length	Name	Description
19-48	30	Owner	
49-68	20	Driller	
69-75	7	Date	Month columns 69-70 Day columns 71-72 Century columns 73 Year columns 74-75
76	1	Permit code letter indicates agency which issued permit #. M Mines and Minerals (after 1988 only observation wells and irrigation wells) P Public Health - all non-community supplies E EPA - Community supplies N No fee X Undetermined	
77-82	6	Permit number	
83-86	4	Depth (in feet)	
87-90	4	Record type - Indicates paper source that documents the well exists, since records were collected before well log submittal was required. L Log A Affidavit C Chemical analysis I Inventory X Indicates comment in owner field something unusual	
91-92	2	Well use - A two letter code indicating the usage of the well CM Commercial CO Conservation DO Domestic IN Industrial IR Irrigation MO Monitoring MU Municipal NC Non-Community OB Observation PK Park SC School ST State	

163	01N09W047FLALUMIER E		0000943	29	C	DU
163	01N09W06 JC RR A YARD	LAYNE WESTERN	0400947	105	L	CM
163	01N09W081ABARBEAU E	DOHRMAN	0901977M065458207		L	DO
163	01N09W081CDLIVER M	DS DRILL	0911974M032393140		L	DO
163	01N09W087EPIAT E		0000943	27	C	DU
163	02N09W075DCIRCLE PKG CO	WATSON	0200942	120	L	CM
163	02N09W075ECIRCLE PKG CO	LUHR	0000962	112	IC	CM
163	02N09W075ECIRCLE PKG CO	LUHR	0719966	115	IC	CM
163	02N09W076DCIRCLE PKG CO		0000941	111	LC	CM
163	02N09W076EE SIDE PKG		0000906	100	L	CM
163	02N09W076EHUNTER PKG CO	BUTLER	0421958	116	L	CM
163	02N09W076EHUNTER PKG CO	LAYNE WESTERN	0000968	106	I	CM
163	02N09W077EHUNTER PKG CO	FRANK	0322957	100	L	CM
163	02N09W077EHUNTER PKG CO	LUHR	0306956	106	LC	CM
163	02N09W077FHUNTER PKG CO		0000943	110	C	CM
163	02N09W087APFIZER	LAYNE WESTERN	0814972M016352115		L	CM
163	02N09W087APFIZER	RUESTER	1100983M109867117		L	CM
163	02N09W092HPENN RR LAKE ROAD HOUSE	WATSON	0900941	115	L	CM
163	02N09W097ANIEDERER DAIRY		0000936	96	C	CM
163	02N09W097ANIEDERER DAIRY	WATSON	0300946	98	LC	CM
163	02N09W103DWATERLOO ICECREAM		0000942	122	C	CM
163	02N09W103DWATERLOO ICECREAM		0000942	124	C	CM
163	02N09W106GWALWORTH CO		0000943	122	C	CM
163	02N09W108HWALWORTH CO		0000943	124	C	CM
1632659102N09W151EFREEDOM CONCRETE		ST CH DRILL	1208987M137981100		L	CM
163	02N09W157ASCHRANZ J		0908964	98	L	DO
163	02N09W16		0000930	110	C	DO
163	02N09W16 JONES PK		0000954		C	PK
163	02N09W167AE ST LOUIS CASTING		0200943	116	LC	CM
163	02N09W168EWATERLOO ICECREAM	WATSON	0909939	59	L	CM
163	02N09W172BAM ASPHALT ROOFING	WATSON	0200947	105	L	CM
163	02N09W173BAM ASPHALT ROOFING		0000939	115	LC	CM
163	02N09W173FE ST LOUIS PK DIST		0000930	110	C	PK
163	02N09W177FWILLIAMS PAINT CO	THORPE	0600929	117	L	CM
163	02N09W177GWILLAIMS PAINT CO(TEST)	LAYNE WESTERN	0000947	116	LX	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0000947	114	L	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0000947	115	L	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0600929	113	L	CM
163	02N09W177GWILLIAMS PAINT CO(TEST)	LAYNE WESTERN	0000947	117	LX	CM
163	02N09W177GWILLIAMS PAINT CP		0000928	100	C	CM
163	02N09W177HPFIZER	THORPE	0000947	114	IC	CM
163	02N09W178BDRUG STORE		0000949	84	C	CM
163	02N09W187CROXY THEATRE		0000944	91	C	CM
163	02N09W187GBANNER ICE	WATSON	0000943	116	CL	CM
1632590302N09W19 PRESTRESSED SLABS		ST CH DRILL	1029986M126802100		L	CM
163	02N09W193HHOME ICECREAM CO		0000933	115	LC	CM
163	02N09W198EDBEAR NESTER CO		0000943	104	C	CM
163	02N09W198FCERTAIN TEED PROD		0903952	106	L	CM
163	02N09W198FCERTAIN TEED PROD		1026950	110	L	CM
163	02N09W198FDBEAR NESTER CO		0000943	104	C	CM
163	02N09W198GLEMP BREWING CO		0000946	720	C	CM
163	02N09W208AALTON AND SOUTH RR		0000944	100	C	IN
163	02N09W231AOPEN AIR THEATRE	WATSON	1000941	83	L	CM
~~163~~	~~02N09W231EPOPP R~~	~~ST CH DRILL~~	~~0727977M063762114~~		~~L~~	~~DO~~
~~163~~	~~02N09W232FPOPP R~~	~~KOHNEN~~	~~0623984M11312561~~		~~L~~	~~IR~~
163	02N09W263HAM ZINC CO			97	C	CM
163	02N09W29 ALUMINUM ORE COO		1000940	1215	L	IN
163	02N09W295GIND TRACK SUP INC	KOHNEN	0119981M09811132		L	DU
163	02N09W298FCHEM TECK PROD		0000972	98	IC	CM

163	02N10W103BNAT STOCK YD		0000967	108	C	CM
163	02N10W11 MISSOIRI ILL MATERIAL		0400943	115	L	CM
16301370	02N10W22 MONSANTO CHEM	RANNEY	0800952	97	L	IN
16301372	02N10W22 MONSANTO CHEM	RANNEY	0800952	97	L	IN
16301371	02N10W22 MONSANTO CHEM	RANNEY	0903952	90	L	OB
163	02N10W23 AP GROCERY	WATSON	0600946	80	L	CM
163	02N10W241ECERTAIN TEED PROD		0000943	106	C	CM
163	02N10W241HCERTAIN TEED PROD	WATSON	1200942	123	L	CM
163	02N10W25 MOBIL OIL		0000987	105	A	IN
163	02N10W25 MOBIL OIL		0000987	109	A	IN
163	02N10W25 MOBIL OIL	EATSON	0000943	16	A	IN
163	02N10W25 MOBIL OIL	WATSON	0000940	115	A	IN
163	02N10W25 MOBIL OIL	WATSON	0000946	92	A	IN
163	02N10W25 MOBIL OIL	WATSON	0000951	106	A	IN
163	02N10W25 MOBIL OIL(PLANT CLOSED)	WATSON	0000939	115	AX	IN
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0404984M11165967		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0404984M11165968		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0405984M11166068		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166168		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166268		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166368		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166468		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166568		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166668		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166768		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166868		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166968		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167068		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167168		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167268		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167368		LX	DU
16325697	02N10W25 TWI INC	ST CH DRILL	0702985M11870189		L	CM
163	02N10W25 TWI INC	ST CH DRILL	1217982M10581984		L	CM
163	02N10W255DMOBIL OIL	LUHR	0214961	107	LC	IN
163	02N10W255EMOBIL OIL	LUHR	0000959	114	C	IN
163	02N10W256AMIDWEST RUBBER CO	THORPE	0500951	110	L	CM
163	02N10W256ESOCONY OIL	WATSON	0000943	95	L	IN
163	02N10W257BMONSANTO CHEM		0000920	100	L	IN
163	02N10W257EMOBIL OIL	LUHR	0411957	113	L	IN
163	02N10W257EMOBIL OIL	THORPE	0000951	106	LA	IN
163	02N10W257ESOCONY MOBIL OIL	WATSON	0000955	112	L	IN
163	02N10W26 AM AG CHEM CO	WATSON	000000	102	L	IN
163	02N10W26 LEWIN MATHES	WATSON	0200947	104	L	CM
163	02N10W26 MIDEWST RUBBER CO	THORPE	1200946	111	L	CM
163	02N10W26 MIDWEST RUBBER	WATSON	0321960	113	L	CM
163	02N10W26 MIDWEST RUBBER CO	MORGAN	0000950	106	L	CM
163	02N10W26 MIDWEST RUBBER CO	MORGAN	0000950	114	L	CM
163	02N10W26 MIDWEST RUBBER CO	WATSON	1007959	110	L	CM
163	02N10W261EMONSANTO CHEM		0000947	105	C	IN
163	02N10W261ESTERLING STEEL CASTING		0000942	95	LC	CM
163	02N10W261GMONSANTO CHEM(TEST)	WATSON	0000950	108	LX	IN
163	02N10W261HCWS PLANT US ARMY		0000941	100	LC	CM
163	02N10W261HCWS PLANT US ARMY		0700941	105	L	CM
163	02N10W262DSTERLING STEEL CATSING		0000973		C	CM
163	02N10W262EMONSANTO CHEM		0000947	105	C	IN
163	02N10W262EMONSANTO CHEM		0300941	107	LC	IN
163	02N10W262EMONSANTO CHEM	WATSON	0000941	107	L	IN
163	02N10W262HAM ZINC CO(ABANDONED)	WATSON	0000943	107	LX	CM
[illegible]	[illegible]LEWIN MATHES		0000939	95	[illegible]	CM

163	02N10W263DLEWIN MATHES		0000942	110	C	CM
163	02N10W263GMONSANTO CHEM		0100942	110	LC	IN
163	02N10W263GMONSANTO CHEM		1000939	105	LC	IN
163	02N10W263HAM ZINC CO	WATSON	0100942	105	LC	CM
163	02N10W264DLEWIN MATHES	WATSON	0600948	101	L	CM
163	02N10W264EMONSANTO CHEM		0000947	109	C	IN
163	02N10W264FMONSANTO CHEM		1000939	105	LC	IN
163	02N10W264SMONSANTO CHEM		0200943	104	LC	IN
163	02N10W265DCERRO COPPER BRASS	LUHR	0000970	111	CI	CM
163	02N10W265DDARLING CO		0000939	70	LC	CM
163	02N10W266BMIDWEST RUBBER CO	THORPE	0300951	112	LC	CM
163	02N10W268ACLAYTON CHEM CO	ST CH DRILL	0225983M10620890		L	CM
163	02N10W268ACLAYTON CHEM CO	ST CH DRILL	0412976M04548078		L	CM
163	02N10W268AMIDWEST RUBBER	LUHR	0906968M004849115		LC	CM
163	0137602N10W27 MONSANTO CHEM	RANNEY	0000952	100	L	IN
163	02N10W27 MONSANTO CHEM	RANNEY	0801952	99	L	IN
163	02N10W27 MONSANTO CHEM	RANNEY	0826952	97	L	IN
163	02N10W273FMONSANTO CHEM	LUHR	0600959	101	L	IN
163	02N10W273HMONSANTO CHEM	RANNEY	0000952	102	I	IN
163	02N10W306GAP GROCERY	WATSON	0600946	120	L	CM
163	02N10W331FCARGILL ELEVATOR	WATSON	0600952	105	L	CM
163	02N10W333FMOBIL OIL	FUESTER	0217984M11117196		L	IN
163	02N10W34 PHILLIPS PETRO	WATSON	0000000	23	L	CM
163	02N10W34 US GOVT		0000000		L	RW
163	02N10W342FPHILLIPS PETRO	LAYNE WESTERN	0500978	100	IC	CM
163	02N10W342FPHILLIPS PETRO	RUESTER	0428978M07258102		L	CM
163	02N10W342GPHILLIPS PETRO		0000943	73	C	CM
163	02N10W345FCORPS OF ENGINEERS		1015947	102	L	CM
163	02N10W355AUP OIL AND READY CONCRETE	ST CH DRILL	1107977M06863010		L	CM

Reference Number 5

Brent Manning
Director

John W. Comerio
Deputy Director

Bruce F. Clay
Assistant Director

Illinois Department of Conservation
life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601
[redacted]

June 24, 1991

Mr. Tim Murphy
IL EPA/LPC
P.O. Box 19276
Springfield, IL 62794-9276

Re: ILD #980606982, 000672329, 000605790, 000722074, 000665836
Sauget Sites Area #2

Dear Mr. Murphy:

In response to your June 10, 1991 request the Department has reviewed the proposed CERCLIS Sites (Sauget Area #2) in St. Clair County.

There are no sensitive areas on site, but there are several sensitive areas in the 0-¼ and ¼ to ½ mile radius of the site and along the water path, both on the Illinois and Missouri Sides.

The Resource Inventory for the Mississippi River for the 178-162 River Miles (see attached information) shows fish spawning areas, commercial fishing areas, sport fishing areas, important wildlife habitat and bald eagle use at selected areas in this reach.

Also, during September, 1989 fish contaminant sampling we observed numerous (~100) 9-12 inch sauger using this area of the river between RM. 178-176. Large numbers of channel catfish and white bass were also observed. It is likely these species also use much of the 178-162 mile reach.

Thank you for the opportunity to comment. If you need further information please advise.

Sincerely,

Richard W. Lutz

Richard W. Lutz, Supervisor
Impact Analysis Section
Division of Planning

RWL:ts

Att: sensitive areas form
Resource Inventory maps

RECEIVED
JUN 26 1991
IEPA/DLPC

DEPARTMENT OF CONSERVATION IDENTIFICATION OF ENVIRONMENTAL SENSITIVE AREAS

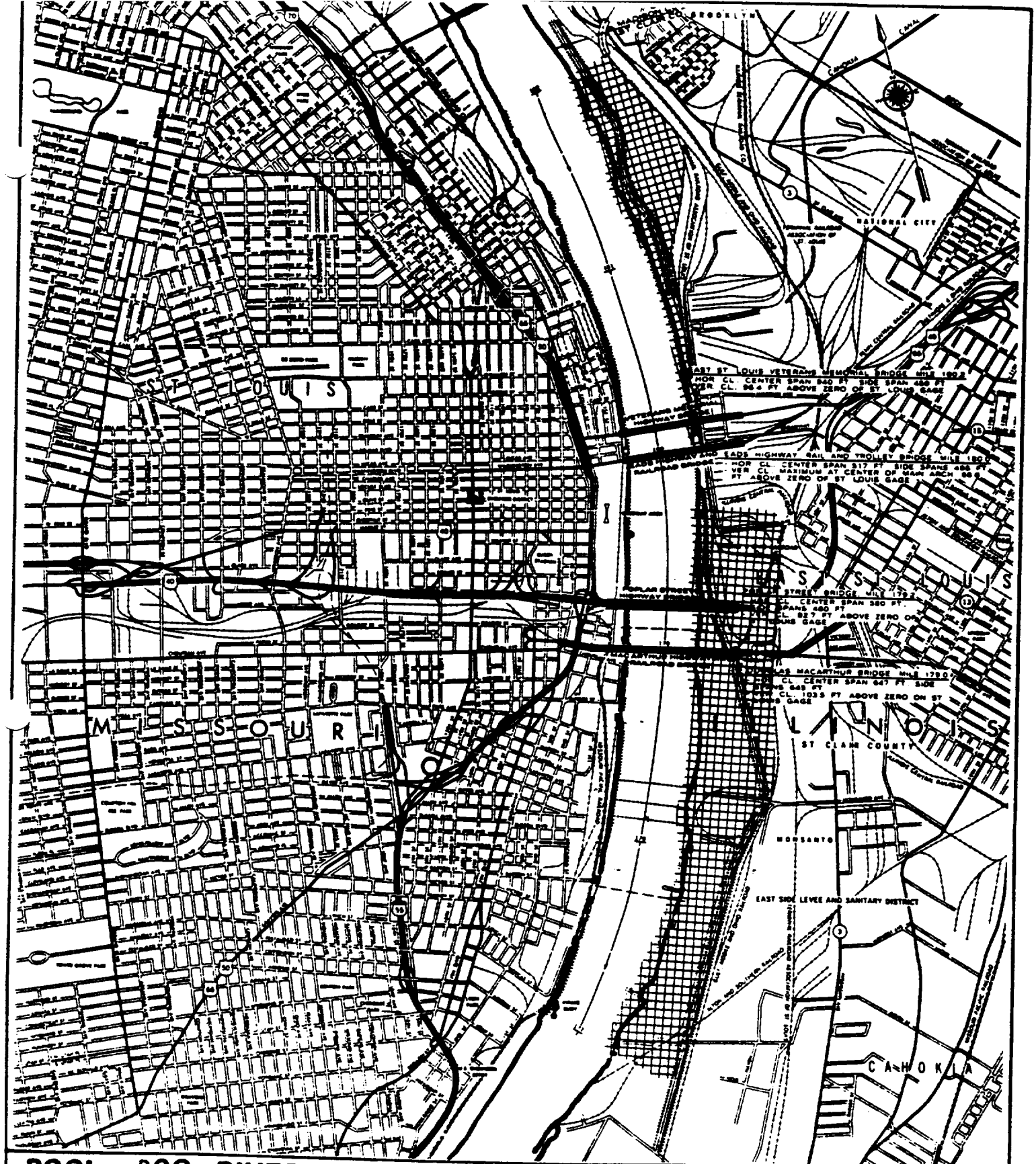
ILD# 000665836
980606982
000672329
000605790
000722074

— = None in Area

TARGET DISTANCE CATEGORIES

SENSITIVE ENVIRONMENTS	On-site	0-1/4 mile	1/4-1/2 mile	stream milage
I. Critical habitat for Federally designated or proposed endangered or threatened species	—	—	—	
II. Habitat known to be used by Federally designated or proposed endangered or threatened species	—	—	—	*
III. State wildlife refuge	—			
IV. Spawning areas critical for the maintenance of fish/ shellfish species within a river system	—	*	*	*
V. Terrestrial areas utilized by large or dense aggregations of verbebrate animals for breeding	—	—	—	*
VI. Habitat known to be used by State designated or threatened species	—	—	—	*
VII. Habitat known to be used by a species under review as to its Federal endangered or threatened status	—	—	—	—
VIII. State lands designated for wildlife or game management	—	—	—	*
IX. State designated natural area	—	—	—	—
X. Particular areas, relatively small in size, important to the maintenance of unique biotic communities	—	—	—	—

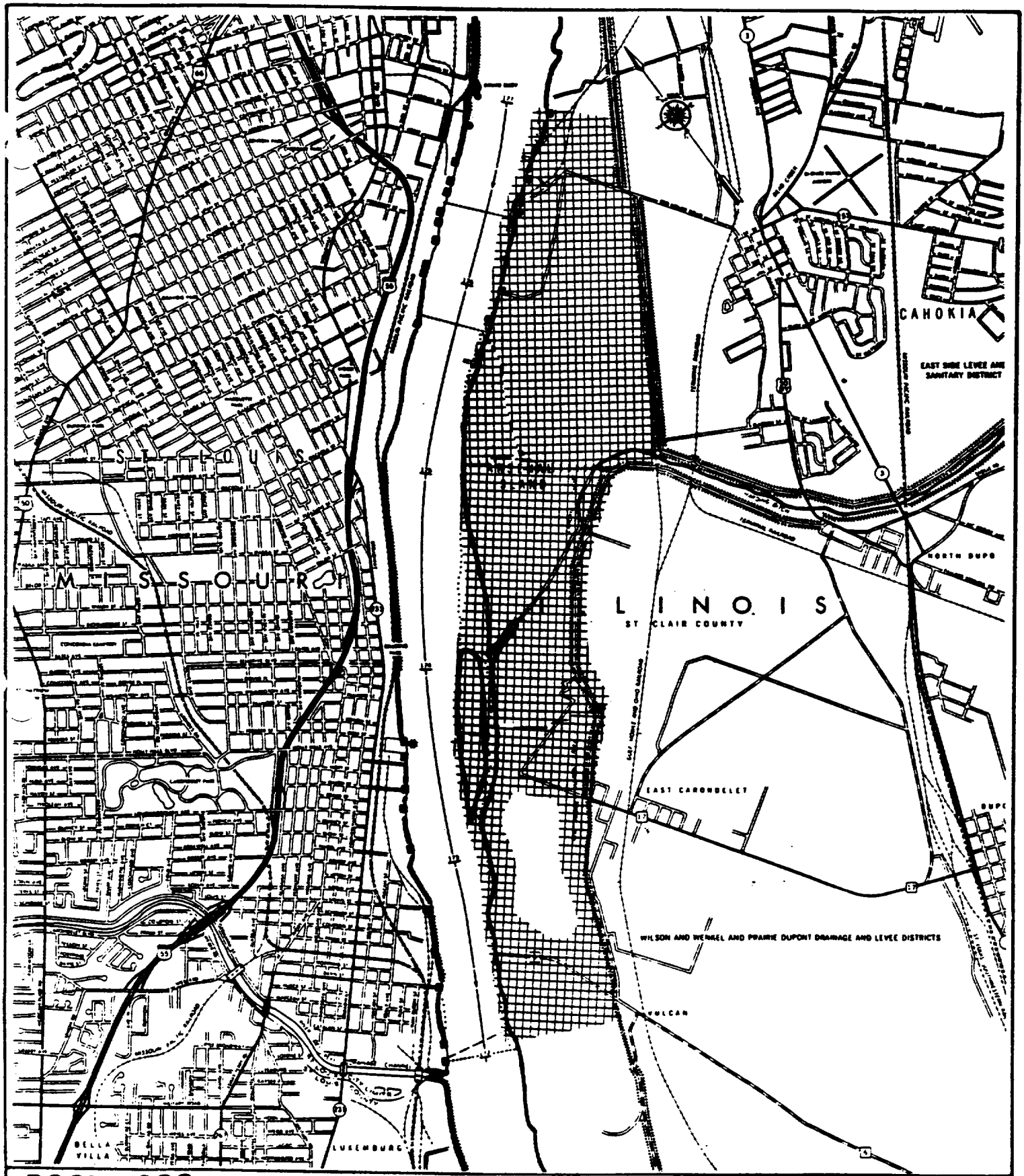
If any of the sensitive areas identified above exist within the designated target distance limits, please post an asterisk (*) in the appropriate column.



POOL B26 RIVER MILE 177 - 182

USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE



POOL B26 RIVER MILE 172 - 177

USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE

River Mile 177-182

Recreation

179.6(L) - The East St. Louis Access contains bank fishing and a scenic view of Gateway Arch.

179.7(R) - St. Louis City Harbor (boat ramp and marina).

179.8(R) - Jefferson National Expansion Memorial.

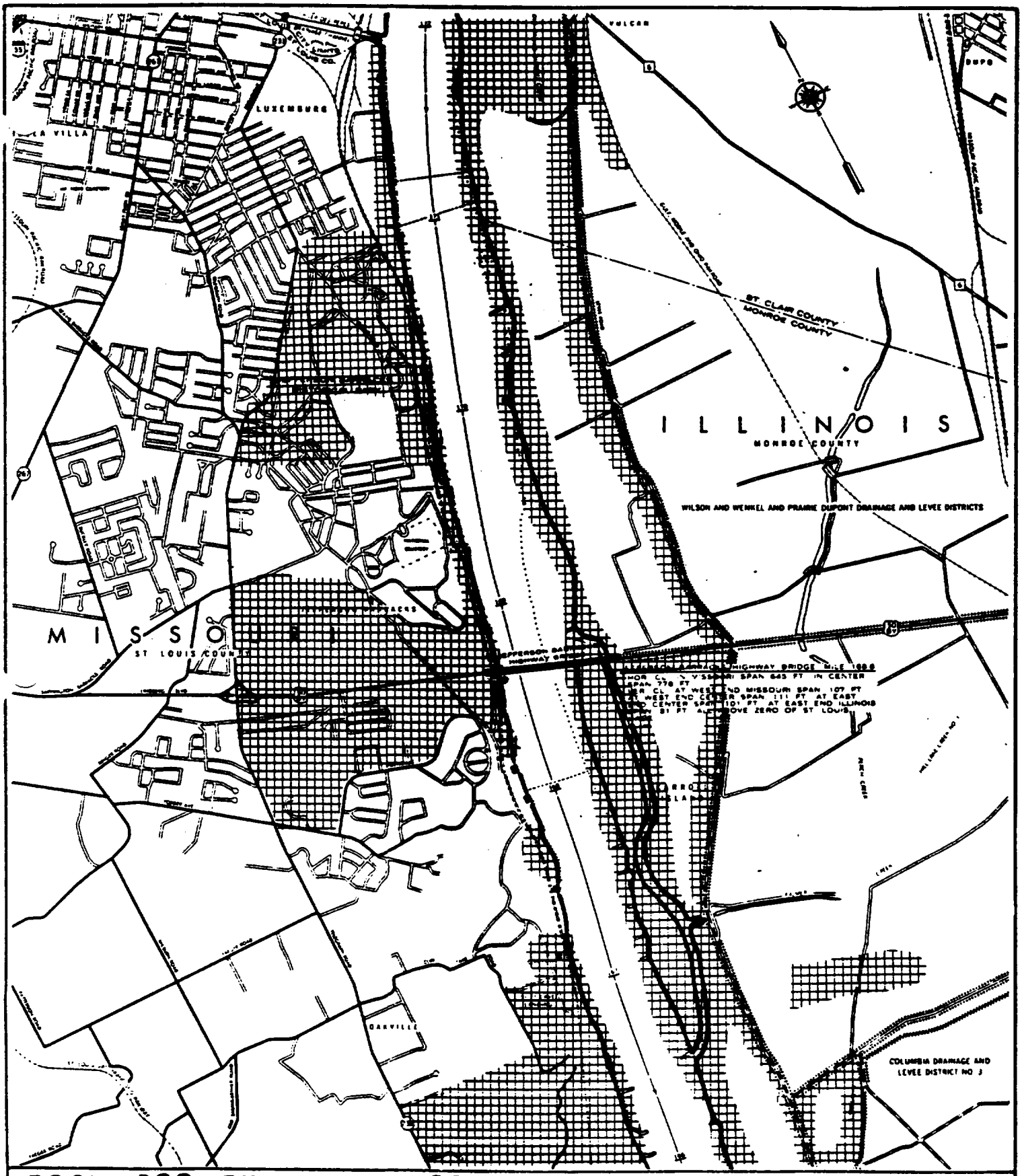
River Mile 172-177

Wildlife

172.5-176.0(L) - Important area for mourning dove.

Recreation

174.4(R) - Upper and Lower Bellerive Park.



POOL B26 RIVER MILE 166 - 172

USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE

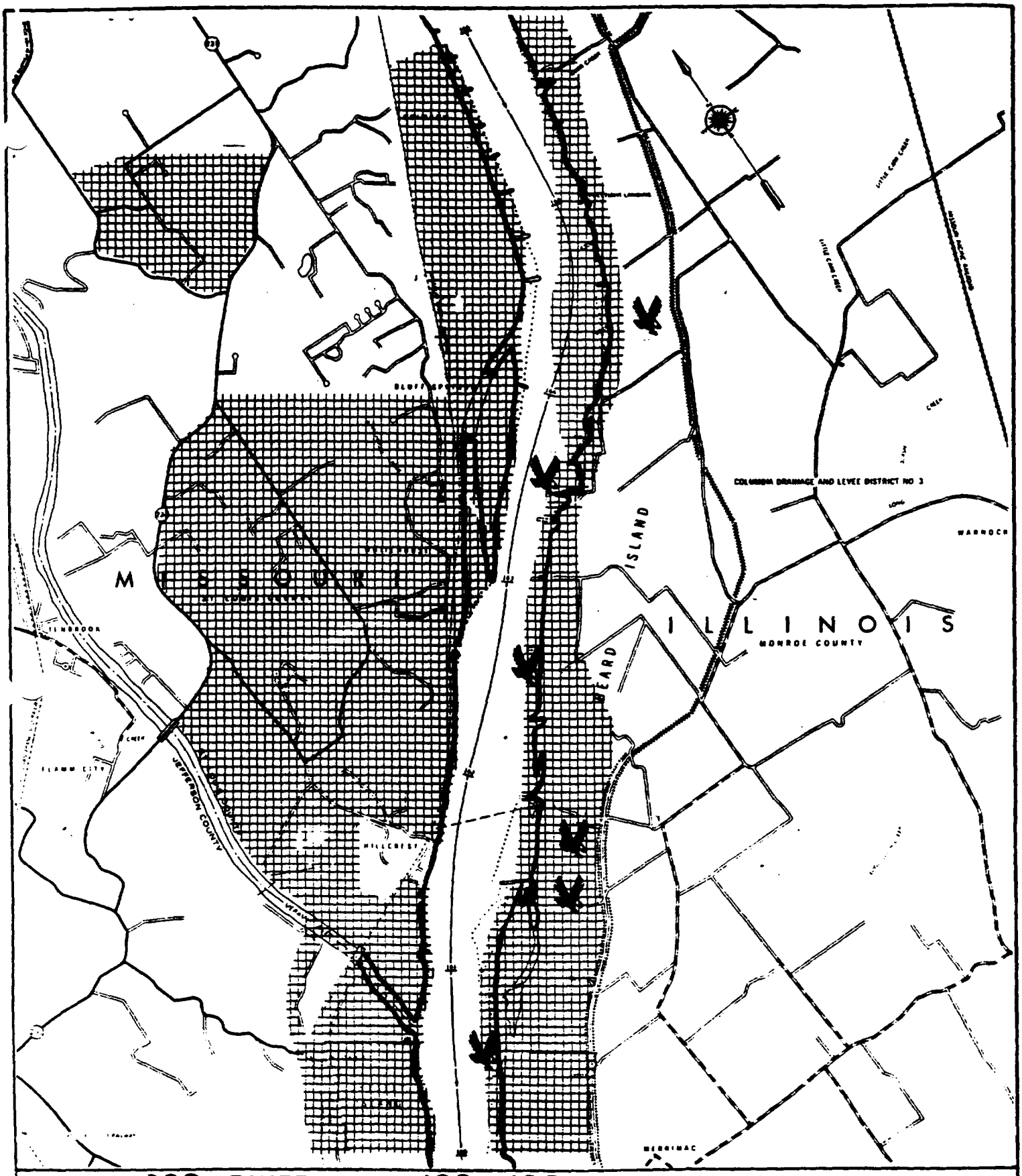
River Mile 166-172

Recreation

167.0(R) - Cliff Cave contains a picnic area, bluffs, and caves. The Cliff Cave Natural Area is also located here.

170.0-171.0(R) - Jefferson Barracks Historical Park (camping, picnic area, historic site).

171.5(R) - Black Forest Park (picnic area).



POOL B26 RIVER MILE 160 - 166

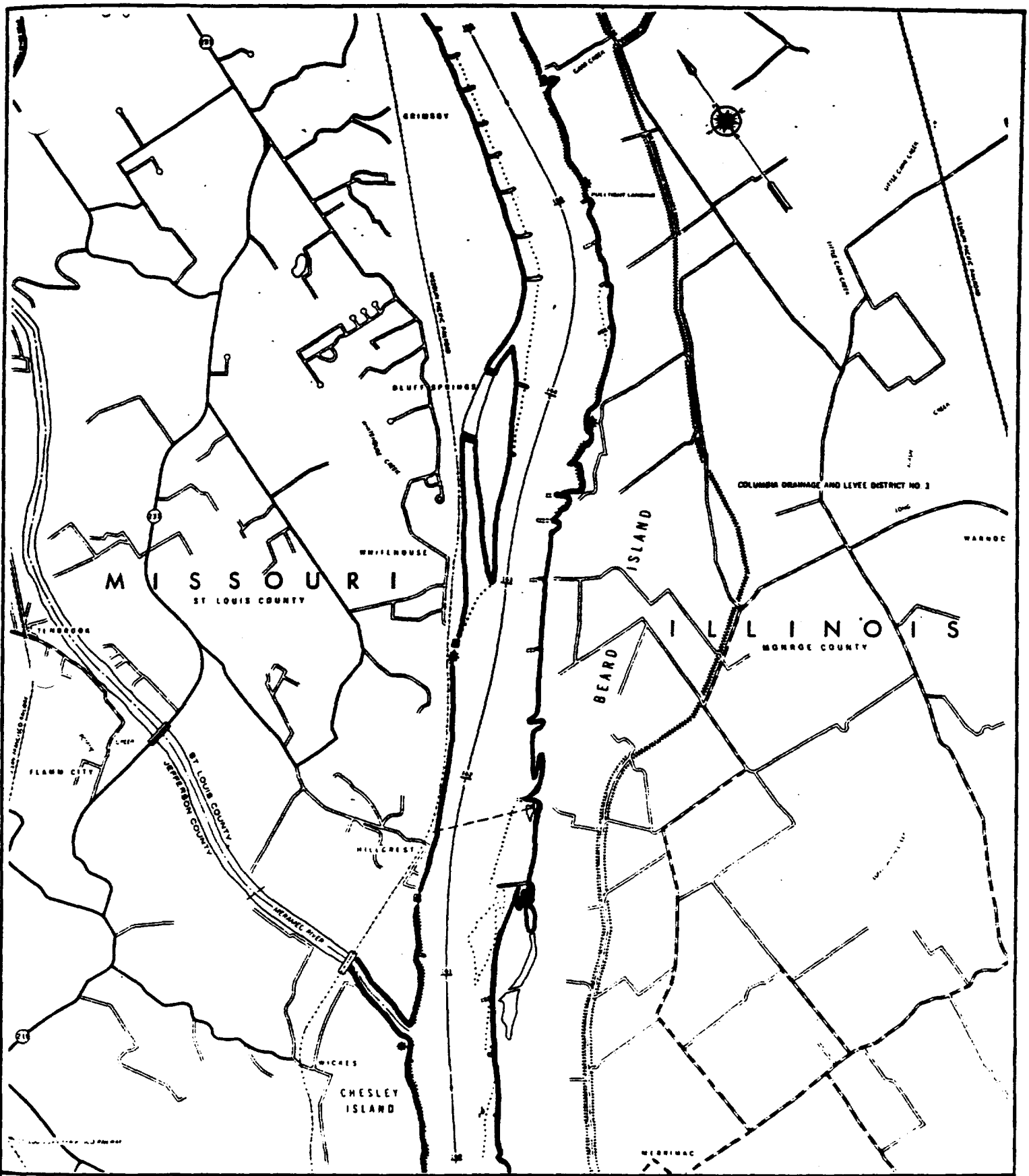
USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE

River Mile 160-166

Recreation

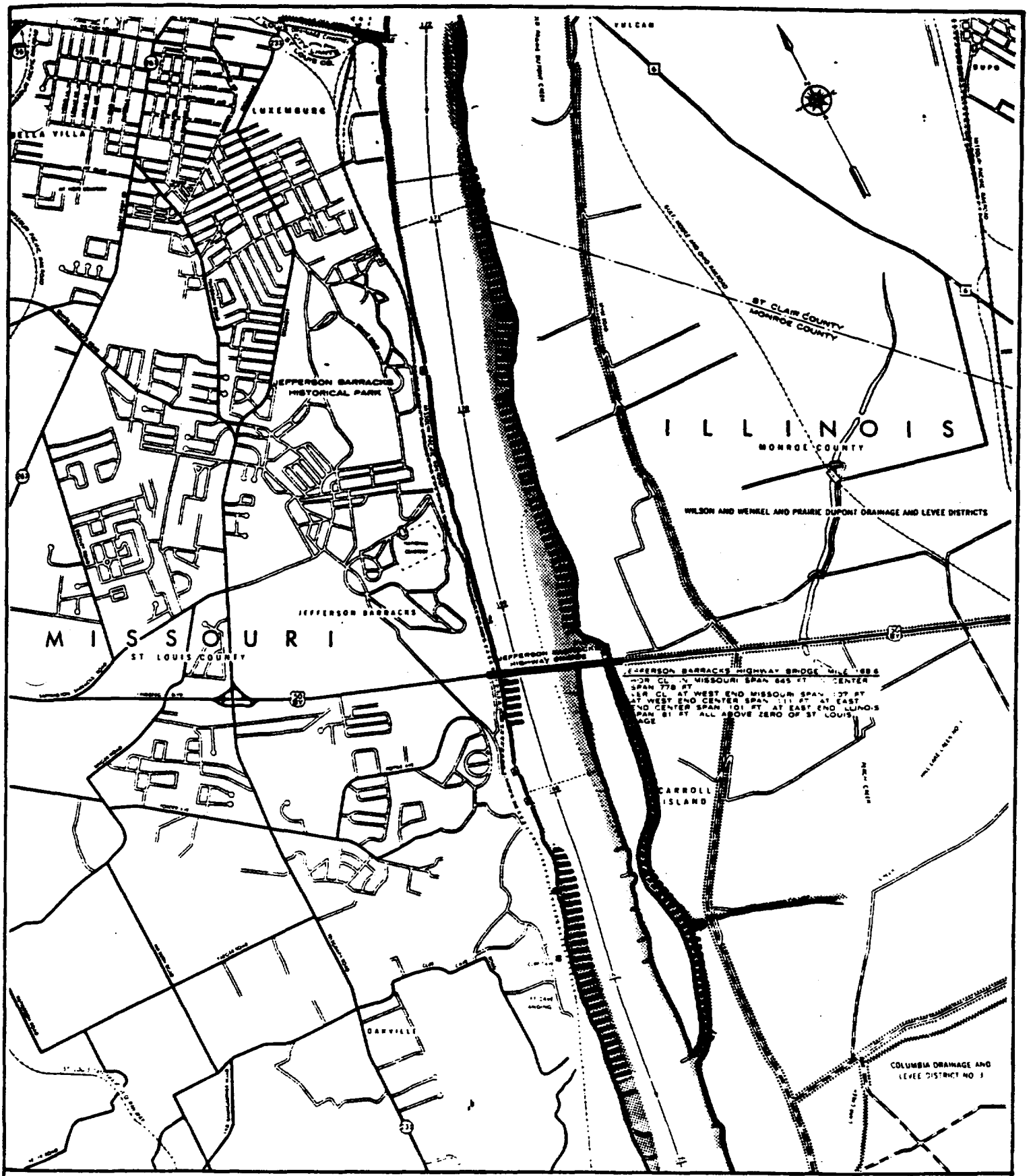
162.8 - Bee Tree (hiking trail and picnic area).



Popular sand beach
Water oriented recreation facility
Public park or recreation area
Popular water sport area
Access to side channel

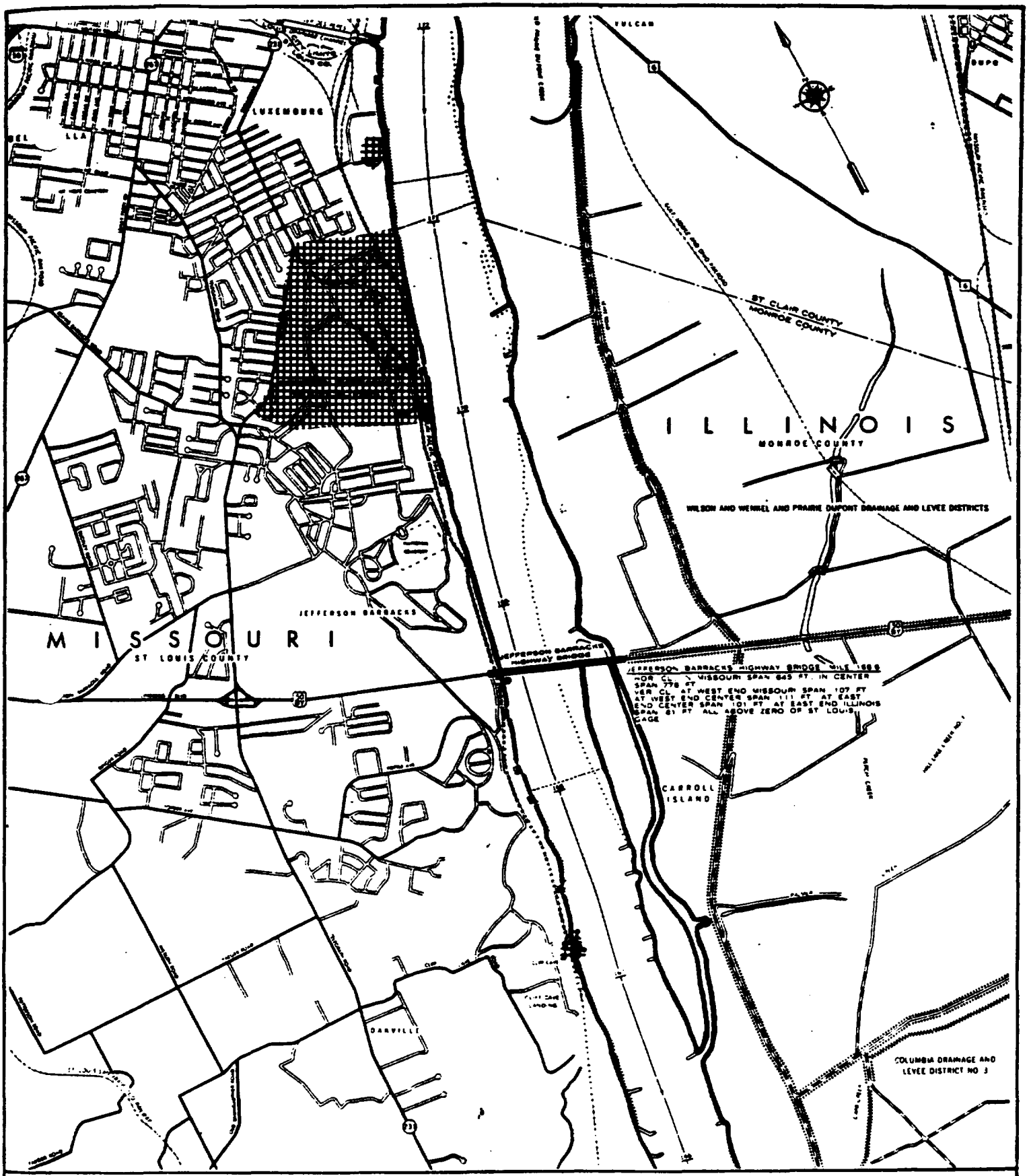
Significant vista

RECREATION



Spawning habitat
Sport fishing area
Important commercial fishing area
Mussel bed

FISHERIES



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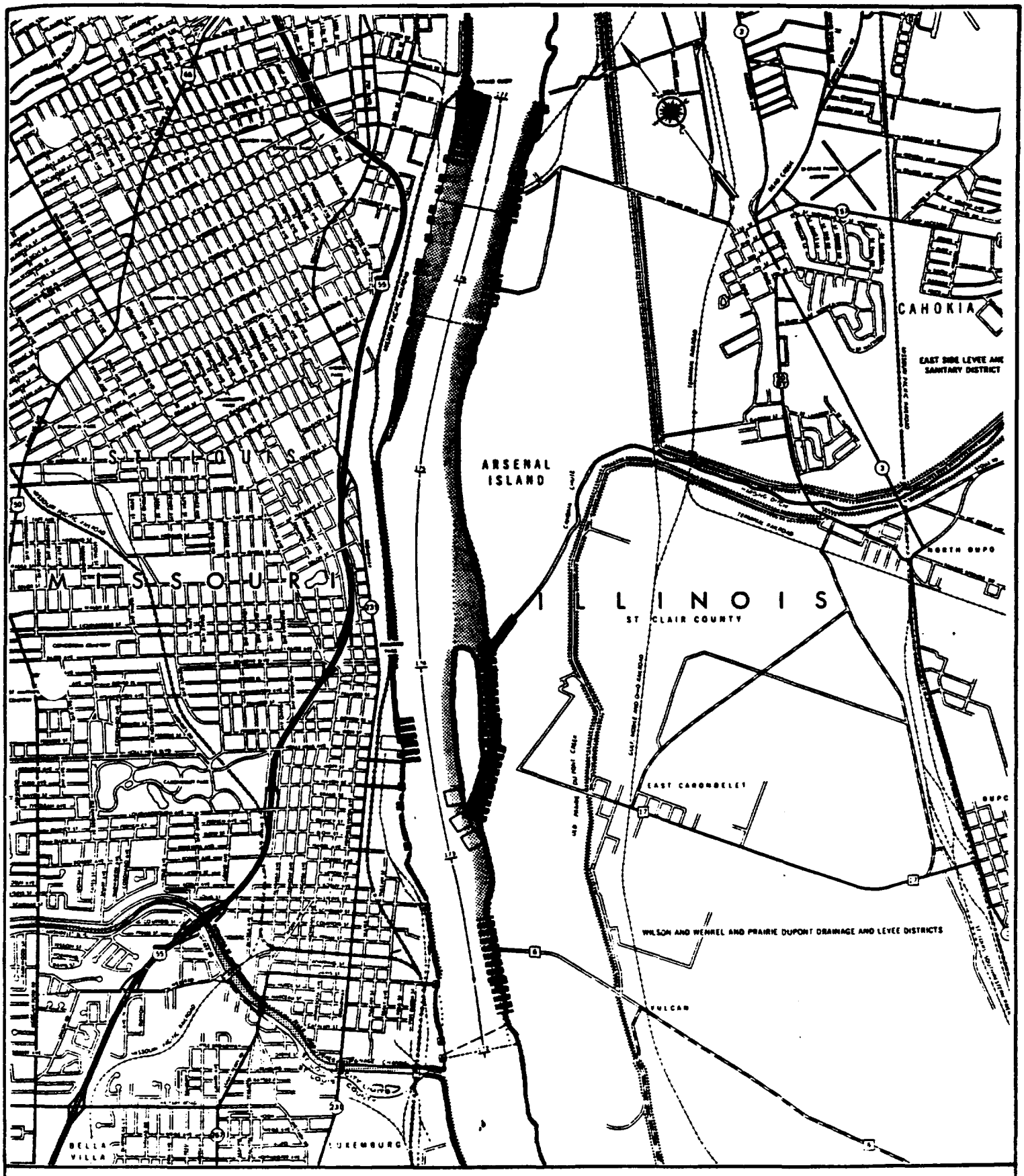

Spawning habitat
Sport fishing area
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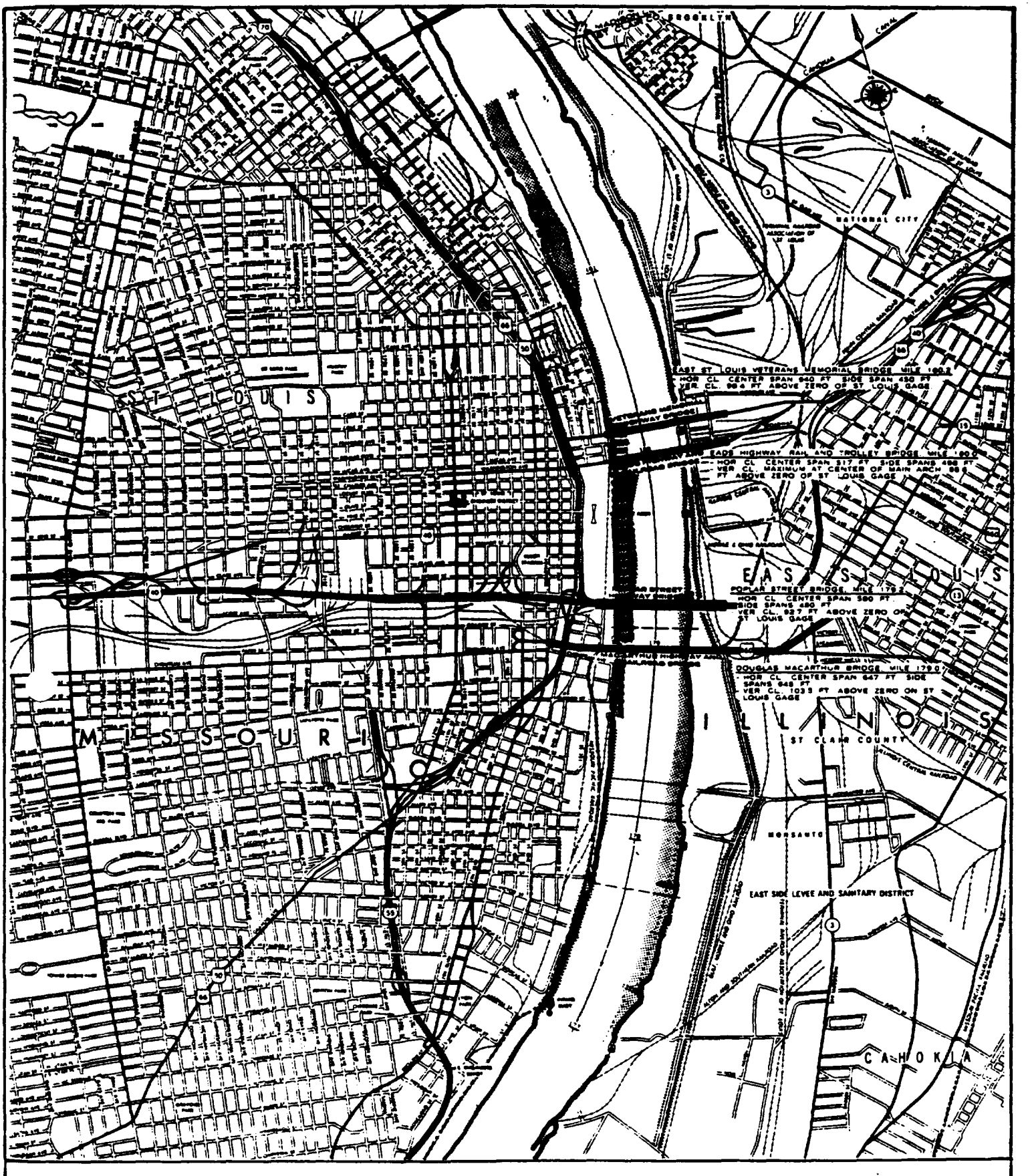
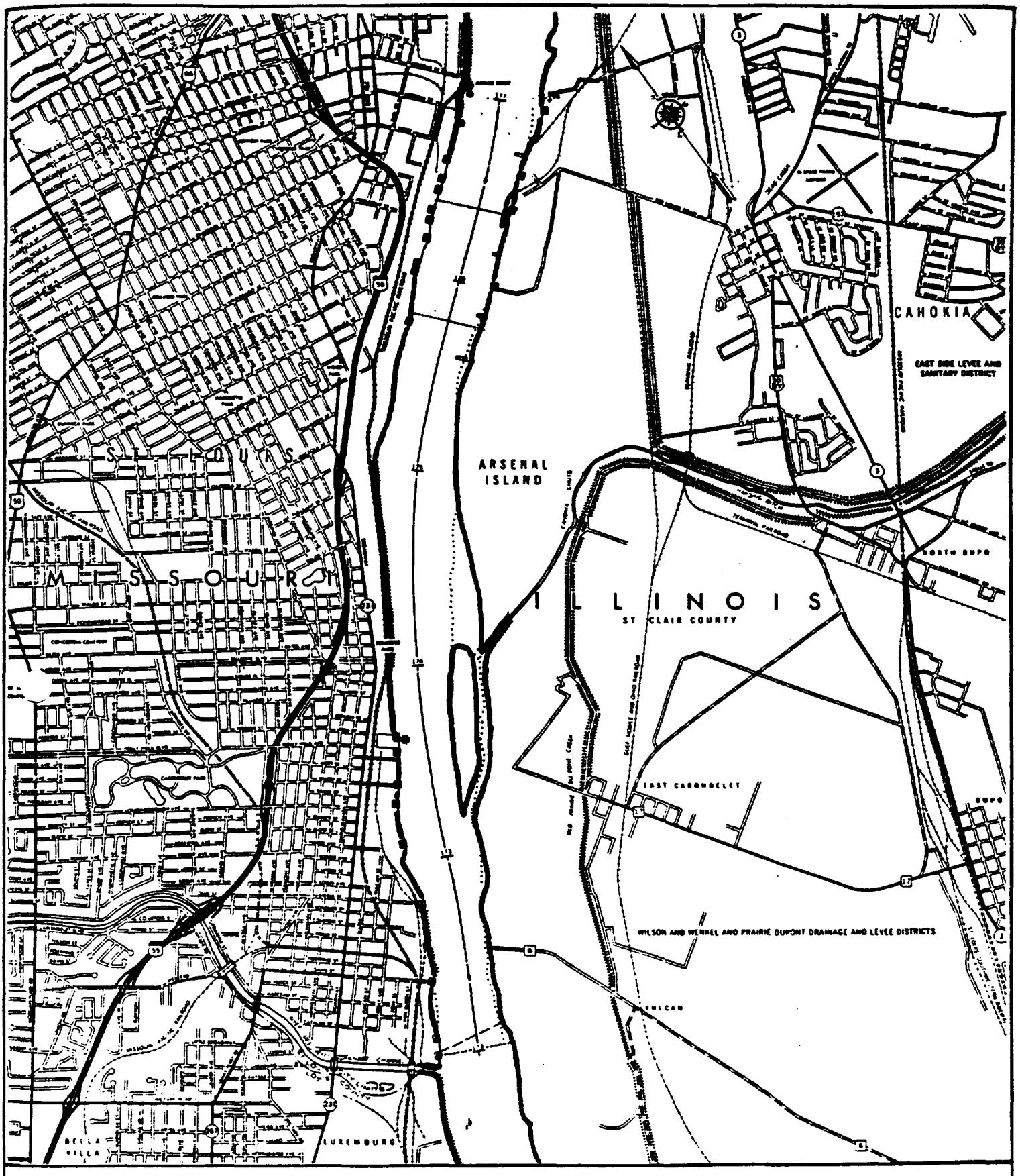
Mussel bed

FISHERIES



Spawning habitat
Sport fishing area
Important commercial fishing area
Mussel bed

FISHERIES



Popular sand beach
Water oriented recreation facility
Public park or recreation area
Popular water sport area
Access to side channel

Significant vista

RECREATION

Popular sand beach
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RECREATION